EXHIBIT B45

DEPOSITION UNDER ORAL EXAMINATION OF

SARAH E. KANE, M.D.

January 25, 2019, 9:19 a.m.

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REPORTED BY: JANET M. SAMBATARO, RMR, CRR, CLR

- - -

GOLKOW TECHNOLOGIES, INC.

877.370.3377 ph | 917.591.5672 fax deps@golkow.com

of SARAH E. KANE, M.D., so of Sugarman, Rogers, n., PC 363 Plantation Street, Boston, cursuant to Agreement before a Registered Merit Reporter, e Reporter, Certified LiveNote Notary Public within and for the of Massachusetts, on January 25, 2019, 19 a.m.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	APPEARANCES: (Continued) SHOOK, HARDY & BACON L.L.P. BY: HUNTER K. AHERN, ESQ. 701 Fifth Avenue, Suite 6800 Seattle, Washington 98104 (206) 344-7600 hahern@shb.com Representing the Defendant, Johnson & Johnson, Johnson & Johnson Consumer Companies, Inc. DRINKER BIDDLE AND REATH LLP BY: KATHERINE MCBETH, ESQ. One Logan Square, Suite 2000 Philadelphia, Pennsylvania 19103-6996
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	20	vollision & vollision consumer companies, mer
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	22	BY: MICHAEL R. KLATT, ESQUIRE
	23	816 Congress Avenue, Suite 1510
	24	Austin, Texas 78701
	25	(512) 391-0197
		(312) 371 0177
Page 3		Page 5
NCES:	1	APPEARANCES: (Continued)
D LLP	2	
E ROTMAN, ESQ.	3	GORDON & REES SCULLY MANSUKHANI, LLP (Continued)
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	5	Imerys Talc America, Inc.
A 02210	6	
0600	7	
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	13	mmeseha@coughlinduffy.com
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	15	
	16	
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	ausfeld.com ag the Plaintiffs PANTONIO STOPHER V. TISI, ESQ. Baylen St. Florida 32502 7000 law.com ag the Plaintiffs D LAW, LLC I RESTAINO, ESQ. Street lorado 80220 8000 PRestainoLLC.com	ausfeld.com ag the Plaintiffs PANTONIO STOPHER V. TISI, ESQ. Baylen St. Florida 32502 7000 law.com ag the Plaintiffs D LAW, LLC I RESTAINO, ESQ. Street lorado 80220 8000 PRestainoLLC.com 8 9 10 11 12 12 12 12 13 14 15 15 16 17 18 18 19 20 21 22 23 24

2 (Pages 2 to 5)

	Page 6		Page 8
1	APPEARANCES: (Continued)	1	EXHIBITS
2		2	Number Description Page
3	SEYFARTH SHAW LLP	3	Exhibit 9 Article entitled "Serous tubal
4	BY: THOMAS T. LOCKE, ESQ. (Via telephone)	4	intraepithelial carcinoma, chronic
5	975 F Street, N.W.	5	fallopian tube injury, and serous
6	Washington, D.C. 20004	6	carcinoma development" 91
7	(202) 463-2400	7	Exhibit 10 "Blaustein's Pathology of the Female
8	Representing PCPC	8	Genital Tract," Fourth Edition 95
9		9	Exhibit 11 Excerpt from "Blaustein's Pathology of
10	ALSO PRESENT:	10	the Female Genital Tract,"
11	Jody Urbati, Videographer	11	Fourth Edition 98
12		12	Exhibit 12 Blaustein's Pathology of the Female
13		13	Genital Tract" 160
14		14	Exhibit 13 Excerpt of "Blaustein's Pathology
15		15	of the Female Genital Tract, Fifth
16		16	Edition 160
17		17	Exhibit 14 Rule 26 Expert Report of Sarah E.
18		18	Kane, M.D. 164
19		19	Exhibit 15 Document entitled "References Cited
20		20	and Other Material and Data
21		21	Considered" 165
22		22	Exhibit 16 Document entitled "Additional
23		23	Material Considered" 181
24		24	Exhibit 17 Document entitled "Additional Materials
25		25	to Dr. Sarah Kane" 186
	Page 7		Page 9
1	INDEX	1	EXHIBITS
2	WITNESS DIRECT CROSS REDIRECT RECROSS	2	Number Description Page
3	SARAH E. KANE, M.D.	3	Exhibit 18 "The Plaintiffs' Steering Committee's
4	By Ms. Ahern 15	4	Initial Designation and Disclosure of
5	By Mr. Klatt 318 348	5	Non-case Specific Expert Witnesses" 194
6	By Mr. Rotman 341	6	Exhibit 19 Article entitled "Presence of Talc
7		7	in Pelvic Lymph Nodes of a Woman with
8	EXHIBITS	8	Ovarian Cancer and Long-Term Genital
9	Number Description Page	9	Exposure to Cosmetic Talc" 252
10	Exhibit 1 Notice of Oral and Videotaped	10	Exhibit 20 Article entitled "Perineal Exposure
11	Deposition of Sarah E. Kane and	11	to Talc and Ovarian Cancer Risk" 260
12	Duces Tecum 27	12	Exhibit 21 Article entitled "Genital Talc
13	Exhibit 2 Curriculum vitae of Sarah E.	13	Exposure and Risk of Ovarian Cancer" 266
14	Kane, M.D. 29	14	Exhibit 22 Article entitled "Perineal Talc
15	Exhibit 3 Invoice from Sarah Kane, M.D., for	15	Exposure and Epithelial Ovarian Cancer
16	services 5/19 through 7/14 31	16	Risk in the Central Valley of
17	Exhibit 4 Invoice from Sarah Kane, M.D., for	17	California" 272
18	services 7/28 through 9/12 41	18	Exhibit 23 Highlighted copy of Dr. Kane's
19	Exhibit 5 Invoice from Sarah Kane, M.D., for	19	expert report 284
20	services 9/18/17 through 2/5/18 43	20	Exhibit 24 Article entitled "Talcum powder,
21	Exhibit 6 Invoice from Sarah Kane, M.D., for	21	chronic pelvic inflammation and
	services 2/23/18 through 8/3/18 44	22	NSAIDs in relation to risk of
2.2	-	23	epithelial ovarian cancer" 289
22 23	Exhibit 7 Invoice from Sarah Kane, M.D. for		
23	Exhibit 7 Invoice from Sarah Kane, M.D., for services 9/20/18 through 11/16/18 45	24	Exhibit 25 Article entitled "The relationship
	Exhibit 7 Invoice from Sarah Kane, M.D., for services 9/20/18 through 11/16/18 45 Exhibit 8 Excerpt from Blaustein's Second Edition 54	24 25	Exhibit 25 Article entitled "The relationship between perineal cosmetic talc usage

	Page 10		Page 12
1	EXHIBITS	1	identified yesterday in that list are voluminous
2	Number Description Page	2	and dense and require additional time to cover,
3	Exhibit 25 (Continued)	3	to the extent that they substantively informed
4	and ovarian talc particle burden" 308	4	Dr. Kane's opinions in this case.
5	Exhibit 26 Article entitled "Pycnogenol reduces	5	We'd also like to object to the
6	Talc-induced Neoplastic Transformation	6	inclusion of those materials on the science day
7	in Human Ovarian Cell Cultures" 328	7	presentations, which were not intended for any
8		8	other purpose than for science day in the MDL.
9		9	And that's all I have to say on the
10		10	objections.
11		11	MR. ROTMAN: Go ahead.
12		12	MR. TISI: First of all, as you know,
13		13	many of those documents were documents that were
14		14	provided to counsel in connection with virtually
15		15	every depositions that have been taken to date.
16		16	In fact, it was provided with Dr. Mohrman that
17		17	was being taken at the same time today; it was
18		18	provided with Dr. Zelikoff earlier in the week;
19		19	it was provided almost routinely.
20		20	Many of them some of them,
21		21	particularly the Health Canada document, were
22		22	documents that only became available in mid
23		23	December, number one.
24		24	Number two, I believe that the science
25		25	day document that you're referring to, which I
			day document that you're referring to, which r
	Page 11		Page 13
1			
_	PROCEEDINGS	1	think you'll find was not relied on in any way,
2	THE VIDEOGRAPHER: We are now on the	2	was a that was the California and not the MDL.
	THE VIDEOGRAPHER: We are now on the record. My name is Jody Urbati. I am a	l .	was a that was the California and not the MDL. So I just want to be clear about that.
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Page 14 Page 16 1 the first being with her report in November; the 1 Commonwealth Pathology Partners? 2 second being on January 4th, which was about ten 2 A. The address we commonly use is 81 3 3 Highland Avenue, Salem, Massachusetts. It's days before the deposition had been scheduled for 4 January 14th; and then these additional items 4 01970. 5 were materials that either were inadvertently 5 Q. Okay. And do you have any separate 6 left off or not reviewed until just very 6 consulting business? 7 7 A. No. Other -- outside of this type of recently. 8 medical expert witness work, no. MS. AHERN: Okay. To the extent that 8 9 Q. Okay. And how often do you do this these new materials inform her substantive 9 10 sort of medical witness work? opinions and were not included in her report or 10 A. I am very new at it. I have done one 11 prior versions of the reference list, then we can 11 12 talk about that later --12 deposition before in a tobacco case. Q. Okay. And the fees that you get from 13 MR. TISI: Yeah. 13 14 14 these cases, do they go directly to you or do MS. AHERN: -- in terms of additional they go to your -- Commonwealth Pathology 15 15 Partners? 16 And just to clarify, Steve, you said 16 17 that she reviewed one textbook. It looks like on 17 A. They go directly to me. 18 the list that I received, she reviewed the 18 Q. And, Dr. Kane, you're a medical doctor; 19 second, fourth, and fifth editions of the 19 correct? 20 textbook --20 A. Yes. Q. And what is your medical specialty? 21 MR. ROTMAN: I was referring --2.1 22 A. I am board certified in anatomic and MS. AHERN: -- or textbooks. 22 23 MR. ROTMAN: I was referring to that as clinical pathology and cytopathology, with 23 24 one textbook, yeah, but you're right, the fellowship training in gynecologic pathology. 24 25 different editions. And she did bring with her Q. Does that mean that you review 25 Page 15 Page 17 1 today those materials. 1 diagnostic materials, slides, and blocks that 2 2 MS. AHERN: So she has a copy with her have been taken from patient procedures and make 3 today of all of the items listed in the 3 determinations regarding diagnosis? 4 additional materials to Sarah Kane that was 4 A. Yes. 5 served yesterday. 5 Q. Do you see patients as part of your 6 MR. ROTMAN: No. б medical practice? MS. AHERN: Okay. Do you know what 7 7 A. Yes. Occasionally, cytopathologists 8 she -- well, we can -- we'll find out. 8 sometimes perform a procedure that's called a 9 MR. ROTMAN: Yeah. 9 fine-needle aspiration. And so if a patient is 10 10 MS. AHERN: Okay. All right. seen in clinic and the clinician discovers a 11 SARAH E. KANE, M.D., 11 palpable nodule, I might be asked to go into the 12 having been duly sworn, after presenting 12 room and perform a fine-needle aspiration. 13 identification in the form of a driver's license, 13 Q. But you don't see patients in the sense 14 that you don't counsel patients and provide 14 deposes and says as follows: 15 DIRECT EXAMINATION 15 ongoing care for an individual patient? 16 BY MS. AHERN: 16 A. Well, I mean, I guess my pathology 17 Q. Good morning, Dr. Kane. 17 report is part of the -- basically speaks to 18 A. Good morning. 18 medical treatment and informs clinical treatment 19 Q. Can you please state your name for the 19 of the patient. So my pathology reports are seen 20 20 by the patient. record? 21 A. Sure. Sarah Kane. 21 Q. I guess what I'm getting at is: Do you 22 Q. And, Dr. Kane, who is your current 22 see patients as part of your practice, give them 23 23 a history and physical, provide ongoing care for employer? 24 A. Commonwealth Pathology Partners. 24 them outside of the setting of a fine-needle 25 Q. And do you have a business address at 25 aspiration or a specific procedure related to a

	Page 18		Page 20
1	diagnosis?	1	aspiration, a blood transfusion reaction.
2	MR. ROTMAN: Is this working for you?	2	Are there any others?
3	THE WITNESS: Oh, I'm sorry?	3	A. I'm trying to think what another
4	MR. ROTMAN: Is it working?	4	possibility might be.
5	THE WITNESS: Yes.	5	I mean, I go into the operative room when
6	MR. ROTMAN: Okay.	6	patients are in surgery sometimes with the
7	A. Outside of the fine-needle aspiration	7	surgeon to do intraoperative frozen sections,
8	setting, the only time I might see a patient	8	which are realtime diagnosis while the patient is
9	would be with a blood transfusion reaction. I	9	having a procedure.
10	might have to go to the floor to examine the	10	Q. But you're interacting with the
11	patient or patient chart.	11	physicians in that respect, aren't you, not with
12	Ongoing care for them outside of the setting	12	the patient?
13	of a fine-needle aspiration, the nature of	13	A. It can be both.
14	gynecologic pathology, sometimes I will see a Pap	14	MR. ROTMAN: Objection. Objection.
15	smear from a patient and then a cervical biopsy	15	You can answer.
16	from a patient and then a LEEP from the patient,	16	MS. AHERN: You can answer.
17	and I might speak to the clinician about	17	A. The vast majority of the time I'm with
18	treatment algorithms, that kind of thing.	18	frozen sections, I'm interacting with the
19	Q. Do you actually then go see the patient	19	surgeon.
20	themselves and discuss with them the results of	20	Q. Are there times where you are
21	their Pap smear or other testing?	21	interacting with the patient during a surgical
22	A. Typically, no.	22	procedure?
23	Q. Have you ever performed a history and	23	MR. ROTMAN: When you say
24	physical in your practice as a pathologist?	24	"interacting," you mean having a conversation or
25	A. Yes.	25	do you mean having any kind of contact?
	Page 19		Page 21
1		1	
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	Page 22		Page 24
1	you ever speak to the patient?	1	A. That's correct. They're not scheduled
2	A. Usually not.	2	to see me.
3	Q. And if you have you ever spoken to a	3	Q. Okay. And so outside of, like you
4	patient when you were reviewing frozen sections?	4	mentioned, procedures like a fine-needle
5	A. I might have during rapid reads of	5	aspiration, you wouldn't generally see patients
6	fine-needle aspirations. So sometimes	6	directly.
7	interventional radiologists will do fine-needle	7	A. The fine-needle aspiration would be the
8	aspirations if they have to be ultrasound guided.	8	only setting where they would have a scheduled,
9	So, yes, I'm speaking to patients sometimes in	9	allotted slot time with me.
10	that situation and, obviously, when I do	10	Q. Okay. Generally speaking, when you're
11	fine-needle aspirations.	11	reviewing slides, what sort of medical records do
12	Q. Okay. But you don't have a group of	12	you have available to you that are relevant to
13	patients that come to you for ongoing care and	13	your clinical diagnosis?
14	see you in an office setting, do you?	14	A. I have the entire medical record
15	A. They are basically I would say it's	15	available to me, whatever is in the hospital
16	the equivalent of physician referral. So if a	16	system for that patient.
17	if a clinician is doing a biopsy I mentioned	17	Q. What do you routinely rely on or review
18	women with Pap smears and then cervical biopsies	18	as part of your review of slides in terms of
19	and then cone LEEPs, you know, it's a trajectory	19	medical records?
20	of care, but it's physician referred for tissue.	20	A. Well, it's very patient dependent and
21	Q. When you say "physician referred," what	21	very diagnosis dependent, but, for example
22	do you what do you mean by that? Are you	22	I'll stick to the example of cervical biopsy. So
23	interacting with the physician in providing	23	I'll be looking if I have a cervical biopsy,
24	advice or recommendations or are you interacting	24	I'll look to see the patient's history of Pap
0 -		25	smears, HPV tests, that kind of thing.
25	with the patients themselves and providing advice		
25	Page 23		Page 25
25		1	Page 25
	Page 23 or recommendations?	1 2	Page 25 Q. Documents that are directly relevant to
1	Page 23 or recommendations? A. The physicians usually.		Page 25
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	Page 26		Page 28
1	A. Yes. It was an individual causation	1	MS. AHERN: You're welcome.
2	case.	2	BY MS. AHERN:
3	Q. Okay. Were you an expert for the	3	Q. Dr. Kane, I've handed you a copy of
4	plaintiffs or the defendants?	4	your Notice of Deposition for today.
5	A. For the plaintiffs.	5	Have you seen this document before?
6	Q. And what sort of what sort of case	6	A. Yes.
7	was that in terms of the injury that was being	7	Q. When did you see it?
8	alleged?	8	A. I believe it was sometime in December,
9	A. It was a patient with lung cancer who	9	because the original deposition date was
10	was suing a tobacco company.	10	January 14th.
11	Q. And what was your specific what was	11	Q. And, Doctor, do you know whether you
12	your opinion in that case?	12	produced all of the documents that are responsive
13	A. That it was highly likely that her long	13	to the request in Exhibit 1, your deposition
14	history of smoking caused her lung cancer.	14	notice?
15	Q. So and I should have gone over this	15	MR. ROTMAN: We've objected to a number
16	with you in the beginning, but you're familiar	16	of them. And so she's producing you should go
17	with the deposition rules?	17	item by item, I think, if you want to I'm
18	A. In general, I think.	18	going to object otherwise.
19	Q. Okay. You're doing a very good job.	19	Q. Doctor, do you know what you brought
20	And the main things to remember is the two of us	20	with you today?
21	will try not to speak over each other so that the	21	A. Yes. We have my a copy of my
22	court reporter can take a clean transcript down.	22	updated CV. We have copies of my invoice. I
23	If you need a break at some time, that's	23	believe I have a copy of oh, right. Sorry.
24	fine, just let me know. All I ask is if there's	24	I have pages that I found for the Blaustein
25	a question pending, you go ahead and finish the	25	second edition, which I don't have the actual
			become edition, which I don't have the actual
	Page 27		Page 29
1		1	Page 29
1 2	Page 27 answer to the question and then we'll take a break.		
	answer to the question and then we'll take a break.	1	Page 29 textbook. I believe I got I found this image
2	answer to the question and then we'll take a break. If you don't understand a question that I	1 2	Page 29 textbook. I believe I got I found this image off of the internet. But I do have the fourth and fifth editions of the Kurman Blaustein's
2	answer to the question and then we'll take a break.	1 2 3	Page 29 textbook. I believe I got I found this image off of the internet. But I do have the fourth
2 3 4	answer to the question and then we'll take a break. If you don't understand a question that I ask you, please don't answer it. Let me know	1 2 3 4	Page 29 textbook. I believe I got I found this image off of the internet. But I do have the fourth and fifth editions of the Kurman Blaustein's textbook, and I've marked any relevant pages that
2 3 4 5	answer to the question and then we'll take a break. If you don't understand a question that I ask you, please don't answer it. Let me know that you don't understand the question or you'd	1 2 3 4 5	Page 29 textbook. I believe I got I found this image off of the internet. But I do have the fourth and fifth editions of the Kurman Blaustein's textbook, and I've marked any relevant pages that I reviewed a couple of days ago.
2 3 4 5 6	answer to the question and then we'll take a break. If you don't understand a question that I ask you, please don't answer it. Let me know that you don't understand the question or you'd like me to rephrase it and I'll be happy to do	1 2 3 4 5 6	Page 29 textbook. I believe I got I found this image off of the internet. But I do have the fourth and fifth editions of the Kurman Blaustein's textbook, and I've marked any relevant pages that I reviewed a couple of days ago. MS. AHERN: If you
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I	Page 30		Page 32
1	Q. Okay.	1	June 16th, which is the last date. So it would
2	MS. AHERN: I don't know if anyone else	2	have been after June 16th, 2017.
3	needs a copy.	3	Q. I'm sorry. Do you remember when you
4	BY MS. AHERN:	4	were retained by the plaintiffs to be an expert
5	Q. Doctor, Exhibit 2, this is a copy of	5	in this litigation?
6	your current curriculum vitae?	6	A. I believe I was contacted by Mr. Rotman
7	A. Yes. January 2019, yes, this is the	7	in early May of 2017.
8	current.	8	Q. Okay. Do you know how Mr. Rotman found
9	Q. And can you tell me what has been	9	your name?
10	updated since you submitted your report	10	A. I believe he was referred by a
11	November 15th of 2018?	11	colleague.
12	A. I believe the only change is that I am	12	Q. Do you remember what colleague that is?
13	now director of cytopathology at North Shore	13	A. Dr. Paul Michaels.
14	Medical Center, which includes Salem Hospital and	14	Q. And is Dr. Michaels a pathologist?
15	Union Hospital, which is in Lynn, Massachusetts.	15	A. Yes.
16	Q. Are there any additional publications	16	Q. Where does Dr. Michaels work?
17	that you have included on your updated resume	17	A. I actually don't know the name of his
18	or, sorry, updated CV?	18	group, but he is in Austin, Texas now.
19	A. I don't believe so.	19	Q. Where was he in 2017?
20	Q. The only change is that your position	20	A. Austin, Texas, I believe.
21	has changed to director?	21	Q. Okay. Is he a gynecologic pathologist?
22	A. Yes, of cytopathology.	22	A. No.
23	Q. Okay. And you've also brought with you	23	Q. What type of pathologist is he?
24	invoices	24	A. He has a cytopathology fellowship, in
25	A. Yes.	25	addition to anatomic and clinical board
	Page 31		Page 33
1	Q for your time spent on talc?	1	certification.
2	A. I handed them to her. Yes.	2	Q. And how do you know Dr. Michaels?
3	MR. ROTMAN: What we handed, I think,		A 337 11 4 1 C 11 4 41
		3	A. We were residents and fellows together.
4	is multiple copies, so you can hand one back, I	4	Q. Were you fellows where? Mass
5	is multiple copies, so you can hand one back, I suppose.	4 5	Q. Were you fellows where? Mass General?
5 6	is multiple copies, so you can hand one back, I suppose. MS. AHERN: We'll mark as Exhibit 3 to	4 5 6	Q. Were you fellows where? MassGeneral?A. At Massachusetts General, yes.
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	Page 34		Page 36
1	this invoice from May 19, 2017, to July 14 of	1	So those hours overlap a little bit. I
2	2017, the first entry looks like it's — it	2	mean, I kept track of particular hours so that I
3	covers a period of May 19th through July 14th,	3	could bill accurately, but those two things
4	"Communication with firm regarding talc	4	certainly, generating the medical expert report
5	litigation case, one hour"; is that correct?	5	would also include review of medical literature.
6	A. Yes. Sorry. Thank you for correcting	6	Q. Okay. So you started on your on the
7	me. I saw the last line, 6/16, and figured that	7	draft of your expert report in this case back in
8	was the last day that this covered. But you're	8	May of 2017; is that correct?
9	correct, it's July 14th would have been the	9	A. Late May, yes.
10	last date that this invoice covered.	10	Q. And did you do you remember when you
11	Yes, June 16th I met with Mr. Rotman,	11	started your review of the medical literature?
12	Dr. Thompson, and Mr. Soileau I don't know how	12	Would it have been May 20th, as reflected in this
13	to pronounce his last name.	13	invoice, Exhibit 3?
14	Q. Are they all they're all attorneys;	14	A. Yes, I believe so.
15	correct?	15	Q. You also have on here that you spent
16	A. Correct.	16	some time researching electron microscopy
17	Q. Okay. What firm?	17	experts.
18	A. I know Mr. Rotman is with Hausfeld.	18	A. Yes.
19	Dr. Thompson is with Allen Beasley. I don't know	19	Q. Was that at the request of the
20	for sure where Mr. Soileau is from.	20	plaintiffs' counsel?
21	Q. You said Mr. Thompson is with Beasley	21	A. Plaintiffs' counsel was looking for
22	Allen.	22	additional people because there are very few
23	A. I believe so. I don't remember for	23	electron microscopy units in the country and very
24	certain.	24	few expert electron microscopists.
25	Q. And at least during	25	I can't remember if they asked me to or I
	Q. This is least during		Team temenaet it dely asked the to of t
	Page 35		Page 37
1	MR. ROTMAN: It's Ms. Thompson.	1	offered to. It could have been the latter. But
2	MS. AHERN: Ms. Thompson.	2	offered to. It could have been the latter. But I was aware that they were looking for additional
2	MS. AHERN: Ms. Thompson. MR. ROTMAN: Or Dr. Thompson.	2 3	offered to. It could have been the latter. But I was aware that they were looking for additional people to potentially use electron microscopy.
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Ī	Page 38		Page 40
1	MS. AHERN: You're	1	P-E-T-U-R.
2	MR. ROTMAN: opinions.	2	Q. N-I-E-, Nielsen?
3	MS. AHERN: instructing her not to	3	A. I believe so.
4	answer the question of, "Doctor, what sort of	4	QS-S-O-N?
5	electron microscopists were you looking for at	5	A. No, -L-S-E-N.
6	plaintiffs' request?"	6	Q. Did you speak to Dr. Nielsen about
7	MR. ROTMAN: Yes. I'm objecting to	7	potentially working on the talc litigation?
8	that.	8	A. I believe I e-mailed him.
9	MR. KLATT: That's not a communication.	9	Q. Do you remember when that occurred?
10	MS. AHERN: That's not a communication.	10	A. It was probably I don't remember
11	That is what did she do and what was she looking	11	exactly, but I would imagine it was between 5/22
12	for.	12	and 6/1 of 2017.
13		13	
14	MR. TISI: It's consulting.	14	Q. And was he interested in doing any talc
	MS. AHERN: She's sitting here today as		work?
15	a testifying expert.	15	A. He was not interested in doing medical
16	MR. ROTMAN: Understood. She's not	16	expert witness or consulting work.
17	going to answer that.	17	Q. Did you e-mail anybody else, any other
18	BY MS. AHERN:	18	electron microscopists?
19	Q. Doctor, did you make any	19	MR. ROTMAN: So you keep on asking her
20	recommendations regarding electron microscopists?	20	about the consulting work that she was doing that
21	A. No, ultimately, I did not give them any	21	had nothing to do with her opinions in this case,
22	names.	22	which is why we're here today. We're not here
23	 Q. What electron microscopists were you 	23	today for you to take the deposition of her
24	looking at when you were conducting your	24	consulting work at that stage on this issue, so
25	research?	25	that whole area is off limits and I'm instructing
	Page 39		Page 41
1	MR. ROTMAN: Again, this is her work	1	her not to answer. If you want to continue
2	on as a consultant not relating to her	2	asking those questions, I'm going to continue to
3	opinions in this case	3	object on the same basis.
4	Q. Doctor, do you	4	Q. Doctor, did you contact any electron
5	MR. ROTMAN: so you're not entitled	5	
5 6	MR. ROTMAN: so you're not entitled to this information.	5 6	microscopists who agreed to work on the talc
	to this information.	1	microscopists who agreed to work on the talc litigation?
6		6	microscopists who agreed to work on the talc litigation? MR. ROTMAN: Objection.
6 7	to this information. MS. AHERN: You're instructing her not	6 7	microscopists who agreed to work on the talc litigation? MR. ROTMAN: Objection. Instruct you not to answer for the
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6 7 8 9 10	to this information. MS. AHERN: You're instructing her not to answer. MR. ROTMAN: Yes. MS. AHERN: Then instruct her not to answer.	6 7 8 9 10	microscopists who agreed to work on the talc litigation? MR. ROTMAN: Objection. Instruct you not to answer for the reasons previously provided. Q. Doctor, do you know a Dr. Campion? A. I do not.
6 7 8 9 10 11	to this information. MS. AHERN: You're instructing her not to answer. MR. ROTMAN: Yes. MS. AHERN: Then instruct her not to	6 7 8 9 10 11	microscopists who agreed to work on the talc litigation? MR. ROTMAN: Objection. Instruct you not to answer for the reasons previously provided. Q. Doctor, do you know a Dr. Campion? A. I do not. Q. Do you know a Dr. John Godleski?
6 7 8 9 10 11 12	to this information. MS. AHERN: You're instructing her not to answer. MR. ROTMAN: Yes. MS. AHERN: Then instruct her not to answer. MR. ROTMAN: I'm instructing you not to answer.	6 7 8 9 10 11 12 13	microscopists who agreed to work on the talc litigation? MR. ROTMAN: Objection. Instruct you not to answer for the reasons previously provided. Q. Doctor, do you know a Dr. Campion? A. I do not. Q. Do you know a Dr. John Godleski? A. I know the name. I do not know him
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	to this information. MS. AHERN: You're instructing her not to answer. MR. ROTMAN: Yes. MS. AHERN: Then instruct her not to answer. MR. ROTMAN: I'm instructing you not to answer. THE WITNESS: Okay. BY MS. AHERN: Q. Doctor, do you know any electron microscopists? A. Yes. Q. Who? A. I know Dr. Gunnlaugur Nielsen at Massachusetts General Hospital. Q. How do you spell Gunnlaugur's name?	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	microscopists who agreed to work on the talc litigation? MR. ROTMAN: Objection. Instruct you not to answer for the reasons previously provided. Q. Doctor, do you know a Dr. Campion? A. I do not. Q. Do you know a Dr. John Godleski? A. I know the name. I do not know him personally. Q. Do you know Bill Welch? A. I know the name. I do not know him personally. Q. Okay. (Invoice from Sarah Kane, M.D., for services 7/28 through 9/12 marked Exhibit 4.) BY MS. AHERN:
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	Page 42		Page 44
1	A. This is probably the second invoice.	1	Q. Who's been your primary contact?
2	Again, I don't believe I had it numbered on the	2	A. Mr. Rotman.
3	actual invoice, but this looks like it would be	3	Q. Okay. And a total for that bill was
4	the second invoice.	4	\$13,835; is that correct?
5	Q. And what period of time does Exhibit 4	5	A. Yes.
6	cover?	6	(Invoice from Sarah Kane, M.D.,
7	A. This covers July 28th to September 12.	7	for services 2/23/18 through 8/3/18 marked
8	Q. Is this 2017?	8	Exhibit 6.)
9	A. Yes.	9	BY MS. AHERN:
10	Q. And you spent an additional 37 hours	10	Q. I'm handing you what's been marked as
11	and 40 minutes reviewing literature and	11	Exhibit 6 to your deposition.
12	generating your expert report; is that correct?	12	Can you tell me what that document is,
13	A. Right. And you'll see I actually	13	please?
14	combined everything, because it got too	14	A. So this I'm counting now looks
15	complicated to separate them out. And generating	15	like this is the fourth invoice yes, the
16	the medical expert report was sort of this	16	fourth invoice that I sent them.
17	organic part of reviewing the literature.	17	Q. And what period of time does this Exhibit 6 cover?
18	Q. And the total bill was for \$19,666.67;	18 19	
19	correct?	20	A. It looks like February 23rd, 2018,
20	A. Yes.	21	through August 7th, 2018.
21	Q. Okay. Was all your time on Exhibit 4	22	Q. Okay. And Exhibit 6 reflects that you spent an additional 16 hours and 55 minutes
22	spent working on your MDL report?	23	reviewing literature and generating your medical
23	A. I'm sorry. This invoice?	24	expert report; is that correct?
24	Q. Yes, ma'am. Was the time spent on	25	A. Yes.
25	Exhibits 3 and 4, these first two invoices, was		11. 105.
۵۵	Eathors 5 and 4, these first two invoices, was		
	Page 43		Page 45
1	Page 43	1	Page 45 Q. And 3 hours and 30 minutes
		1 2	
1	Page 43 this all in relation to your work on the talc	l .	Q. And 3 hours and 30 minutes
1 2	Page 43 this all in relation to your work on the talc MDL?	2	Q. And 3 hours and 30 minutes communicating or meeting with the law firms
1 2 3	Page 43 this all in relation to your work on the talc MDL? A. Yes. I'm not involved in any other	2 3	Q. And 3 hours and 30 minutes communicating or meeting with the law firms involved.
1 2 3 4	Page 43 this all in relation to your work on the talc MDL? A. Yes. I'm not involved in any other talc litigation.	2 3 4	 Q. And 3 hours and 30 minutes communicating or meeting with the law firms involved. A. Correct. Q. Okay. And the total for that invoice was \$10,208; correct?
1 2 3 4 5	Page 43 this all in relation to your work on the talc MDL? A. Yes. I'm not involved in any other talc litigation. Q. Okay. MS. AHERN: Okay. I'm marking Exhibit 5 as oh, I'm marking, sorry, your	2 3 4 5	 Q. And 3 hours and 30 minutes communicating or meeting with the law firms involved. A. Correct. Q. Okay. And the total for that invoice was \$10,208; correct? A. Correct.
1 2 3 4 5 6 7 8	Page 43 this all in relation to your work on the talc MDL? A. Yes. I'm not involved in any other talc litigation. Q. Okay. MS. AHERN: Okay. I'm marking Exhibit 5 as oh, I'm marking, sorry, your third invoice as Exhibit 5 to your deposition.	2 3 4 5 6 7 8	Q. And 3 hours and 30 minutes communicating or meeting with the law firms involved. A. Correct. Q. Okay. And the total for that invoice was \$10,208; correct? A. Correct. Q. Okay. I'm handing you what's been
1 2 3 4 5 6 7 8	Page 43 this all in relation to your work on the talc MDL? A. Yes. I'm not involved in any other talc litigation. Q. Okay. MS. AHERN: Okay. I'm marking Exhibit 5 as oh, I'm marking, sorry, your third invoice as Exhibit 5 to your deposition. (Invoice from Sarah Kane, M.D.,	2 3 4 5 6 7 8	Q. And 3 hours and 30 minutes communicating or meeting with the law firms involved. A. Correct. Q. Okay. And the total for that invoice was \$10,208; correct? A. Correct. Q. Okay. I'm handing you what's been marked as Exhibit 7 to your deposition.
1 2 3 4 5 6 7 8 9	this all in relation to your work on the talc MDL? A. Yes. I'm not involved in any other talc litigation. Q. Okay. MS. AHERN: Okay. I'm marking Exhibit 5 as oh, I'm marking, sorry, your third invoice as Exhibit 5 to your deposition. (Invoice from Sarah Kane, M.D., for services 9/18/17 through 2/5/18 marked	2 3 4 5 6 7 8 9	Q. And 3 hours and 30 minutes communicating or meeting with the law firms involved. A. Correct. Q. Okay. And the total for that invoice was \$10,208; correct? A. Correct. Q. Okay. I'm handing you what's been marked as Exhibit 7 to your deposition. (Invoice from Sarah Kane, M.D.,
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	Page 46		Page 48
1	communicating with the law firms involved?	1	and produce it to one of the attorneys involved?
2	A. That's correct.	2	A. Sure.
3	Q. For a total of \$37,791.67?	3	Q. Thank you.
4	A. Yes.	4	MR. ROTMAN: She'll find it if it
5	Q. Doctor, do you have any this takes	5	exists. She'll look for it.
6	us through this last invoice, Exhibit 7, takes	6	MS. AHERN: Clearly.
7	us through November of 2018.	7	MR. ROTMAN: She didn't testify that
8	You've done additional work since November	8	she produced a fee schedule; she said she
9	of 2018; correct?	9	believed she did.
10	A. I have.	10	MS. AHERN: Understood. If she finds
11	Q. Do you know how much time you have yet	11	it
12	to invoice or sorry, let me back up. Withdraw	12	MR. ROTMAN: Yeah.
13	that.	13	MS. AHERN: she'll produce it to you
14	Have you sent another invoice to plaintiffs'	14	and you'll produce it to us.
15	counsel?	15	MR. ROTMAN: Exactly.
16	A. I have not.	16	BY MS. AHERN:
17	Q. Okay. Do you have any idea how many	17	Q. Doctor, how much I mean, how do you
18	hours you have yet to invoice?	18	keep track of your time? Do you have a
19	A. I have not added it up. I don't really	19	spreadsheet? Do you have some process where you
20	have a ballpark. Maybe I would just be	20	log your hours?
21	guessing. I haven't added it up, to be honest.	21	A. I keep a list, an electronic list.
22	Q. Do you know how much money you've made	22	It's not an Excel, but it's just a list.
23	to date, totaling all of these together?	23	Q. So is it just a Word document and you
24	MR. ROTMAN: Objection.	24	put your time entries in and multiply that by
25	Q. How much money how much money have	25	your hourly rate?
	Page 47		Page 49
1		1	
1 2	Page 47 you made in fees associated with your talc work to date?	1 2	Page 49 A. Basically. Q. And do you generate the invoices
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Page 50 Page 52 1 reviews? MR. KLATT: Chris, let me just clarify. 2 2 There's four blue cardboard TLS boxes --A. So when I was writing the report, 3 you'll notice the first reference list is a list 3 MR. TISI: Correct. 4 of papers that I actually cited in the text of 4 MR. KLATT: -- that you're referring 5 the report, and then I had -- any papers that I 5 to? 6 reviewed or other data that I reviewed, I kept in 6 MR. TISI: Correct. 7 7 MR. KLATT: And they have binders in folders on my computer. 8 8 Unfortunately, I had two hard drives 9 malfunction while I was in the process of writing 9 MR. TISI: They have binders in them. 10 this report. Luckily, I backed up most of it, so 10 And I haven't even looked at them because they 11 11 it's possible a few things didn't get documented, were sent out from the Ashcraft office, but my 12 12 ultimately, but I really tried my best to make it understanding -- and you can crack them open at complete and accurate, and that's why you got 13 break -- but my understanding is there are copies 13 14 14 another list yesterday. of those. I don't know how many. So it's four Q. Okay. And, I'm sorry, we forgot to 15 boxes, but there are duplicates in there. 15 16 16 But they are -- if I understand -- and mark some of these. 17 And so can you tell me -- this is something 17 I can correct them on a break -- if I understand 18 18 you brought with you today? them, they are copies of the references. We did A. Yes. not make copies -- or they did not make copies of 19 19 20 MR. TISI: Can I -- and he's defending 20 the materials that were considered but not 21 the deposition; I just have a little more 21 referenced in the reports. 22 knowledge of the documents and how they -- at 22 Do you follow what I'm saying? 23 least I think I do. 23 MR. KLATT: Yeah. What I want to 24 I think that in the boxes here are the 24 clarify is the four boxes here have not been in 25 25 references cited. The materials considered, I Dr. Kane's possession, so there's no notations, Page 51 Page 53 highlighting, stickies --1 don't think we printed out. I don't think those 1 2 are in the boxes. And so I don't want there to 2 MR. TISI: Oh, no. 3 be any -- there are documents she reviewed that 3 MR. KLATT: -- that she -- that 4 are not here that are not referenced, but were 4 Dr. Kane herself would have put on what's in the 5 identified in that list. 5 boxes --6 Does that make sense? 6 MR. TISI: No. Those were print---7 MS. AHERN: Maybe. I'm going to go 7 MR. KLATT: -- is that correct? 8 through the various reference lists with her --8 MR. TISI: Correct. Those were printed 9 MR. TISI: Okay. 9 out by the plaintiffs' steering committee. 10 MS. AHERN: - and we can kind of 10 Basically, we took her reference list and printed 11 clarify as we go. 11 them out for you all. There's no -- there are no 12 MR. TISI: Like, for example, I mean, I 12 notes from her or anything like that. 13 just -- I'm just using an example -- we 13 What I don't think we printed out for 14 supplemented with some Health Canada materials. 14 you would be the extensive documents that she 15 I don't know if she brought those with her, 15 reviewed, including the supplemental materials 16 because they were not in the original report. 16 that were identified, and then put them -- we can 17 They weren't available at the time, so they would 17 provide those in a -- you know, on a thumb drive 18 not be in the reference materials that are in the 18 if you want to. It's just in these depositions 19 binders. 19 we've had so far, half the time the boxes aren't 20 I know you haven't cracked open the 20 even opened, and we didn't want to just create 21 boxes, but I don't want there to be any 21 paper for the purpose of creating paper. But if 22 misimpression. So in terms of what they are, you 22 you want, we can pull those for you and put them 23 can certainly ask her, but she may not know what 23 in a Dropbox or whatever. 24 is in the boxes, because we printed them out for 24 I don't want to waste your time, 25 25 because I do want there to be -- because she her. Do you know what I'm saying?

	Page 54		Page 50
1	doesn't necessarily know what was printed out for	1	Q. And, Doctor, the additional materials
2	her.	2	to of Dr. Sarah Kane that were provided to us
3	MS. AHERN: Understood. So let's	3	yesterday, you list "Kurman defense report" from
4	MR. TISI: I'm sorry if I	4	a case by the name of Ristesund.
5	MS. AHERN: That's okay.	5	Did you not receive that?
6	MR. TISI: took up time.	6	A. I asked for yeah, I did receive
7	(Excerpt from Blaustein's Second	7	that.
8	marked Exhibit 8.)	8	Q. You received it?
9	BY MS. AHERN:	9	MR. ROTMAN: What she what she was
10	Q. Doctor, I'm handing you what's been	10	saying is she
11	marked as Exhibit 8 to your deposition.	11	MS. AHERN: Wait. I'm asking her the
12	A. Yes.	12	question.
13	Q. Is this something that you brought with	13	Q. Did you receive the report, the Kurman
14	you today in response to the Notice of	14	defense report, from a case by the name of
15	Deposition?	15	Ristesund?
16	A. It's something I brought because I	16	A. Yes. I had requested a defense report
17	reviewed it a couple days ago. It probably falls	17	written by Kurman, if they had anything, and that
18	within the deposition. I know you wanted to see	18	is what I received.
19	everything that I reviewed.	19	Q. Okay. I thought just a minute ago you
20	Q. So, first of all, tell me what this is.	20	said you had not received one because it wasn't
21	What is Exhibit 8?	21	available to you.
22	A. This is a page from Blaustein's second	22	A. I'm talking about the MDL, the curr
23	edition of the Pathology of the Female Genital	23	Q. Ah.
24	Tract.	24	A the current defense expert witness
25	Q. Do you know what page it is?		
	Q. 20 you mio. with page 10 is.	25	reports.
	Page 55	25	reports.
1	Page 55	25	Page 5
	Page 55 A. Unfortunately, it is cut off. This		
1	Page 55 A. Unfortunately, it is cut off. This I don't have this textbook. I found this, I	1	Q. Okay. A. Yeah.
1 2	Page 55 A. Unfortunately, it is cut off. This I don't have this textbook. I found this, I think, on Google Books, actually.	1 2	Q. Okay. A. Yeah. Q. Thank you for the clarification.
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1 2 3 4 5 6	Page 55 A. Unfortunately, it is cut off. This I don't have this textbook. I found this, I think, on Google Books, actually. Q. And so why are you bringing it today again? A. Because I reviewed it.	1 2 3 4 5 6	Q. Okay. A. Yeah. Q. Thank you for the clarification. So you have seen at least one defense report that was written by Dr. Bob Kurman; right? A. Yes.
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	Page 58		Page 60
1	A. I actually don't remember if he trained	1	A. I'm not really sure what you mean by
2	under Scully. It's possible. I don't remember	2	"types." You mean foreign body versus infectious
3	whether or not he did.	3	versus
4	Q. Okay. This Exhibit 8 that you brought	4	Q. Yes.
5	with you today, are you bringing it here because	5	A. Those would be the top of the list.
6	it mentions granulomatous endometritis caused by	6	Q. And are there subtypes of granulomatous
7	foreign bodies?	7	inflammation within those categories?
8	A. It says, "Talc may be introduced into	8	A. Well, you can have multinucleated giant
9	the endometrial cavity by instruments	9	cells that aren't part of a granuloma.
10	contaminated with talcum powder or by gloves	10	You can see another common situation
11	during a pelvic examination. Patients may be	11	where you'll see granulomas is in Crohn's
12	asymptomatic or may present with menorrhagia.	12	disease. That's granulomatous inflammation in
13	Microscopically, the extent of the granulomatous	13	the colon due to inflammatory bowel disease.
14	inflammatory reaction depends on the quantity of	14	And I think yeah. So foreign body and
15	the talc inoculated. The infiltrate is	15	infection are and certain diseases that may
16	characterized by histiocytes and foreign-body	16	cause granulomatous that's sort of the
17	multinucleated giant cells surrounded	17	hallmark of that type of disease, sarcoidosis.
18	surrounding the talc crystals, along with	18	Q. Have you ever the Figure 12.6 in
19	lymphocytes and plasma cells. The crystals	19	Exhibit 8 actually doesn't have anything to do
20	appear as refractile, birefringent, needle-like,	20	with granulomatous endometritis, does it?
21	or fan-shaped splinters in polarizing light."	21	A. No. That figure is of a type of
22	Q. Are you familiar with the type of	22	finding you can see in the endometrium that's not
23	reactions tissue reactions that are elicited	23	a granulomatous reaction.
24	by talc in tissue?	24	Q. And how did Exhibit 8, if it does,
25	A. I know I'm aware that you can get	25	inform your opinions in this case?
	Page 59		
	rage 37		Page 61
1	granulomous granulomatous inflammation, like	1	Page 61 A. Well, it was just a piece of
1 2		1 2	
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	Page 62		Page 64
1	he did the second.	1	going to
2	Q. Does the information in Exhibit 8	2	MS. AHERN: One second, please.
3	inform your decisions regarding talc and	3	Q. You can see inflammatory conditions
4	causation with regard to ovarian cancer?	4	that are not in any way linked to the development
5	MR. ROTMAN: Objection.	5	of cancer; correct?
6	A. It's another piece of evidence. It	6	A. So not all chronic inflammation is
7	mentions granulomatous inflammation due to talc	7	going to lead to cancer, but chronic inflammation
8	in the endometrium.	8	is a well-established cause of different types of
9	Q. And what does that have to do with	9	cancer.
10	ovarian cancer?	10	MR. ROTMAN: I'd like to take a break.
11	A. Well, one of the plausible biologic	11	We've been going a little over an hour.
12	mechanisms for talc causing ovarian cancer is	12	MS. AHERN: Okay.
13	that it elicits a chronic inflammatory reaction.	13	THE VIDEOGRAPHER: Here ends Media 1.
14	Q. And there are different types of	14	Off the record, 10:21 a.m.
15	chronic inflammatory reactions, aren't there?	15	(A recess was taken.)
16	A. Yes, there are.	16	THE VIDEOGRAPHER: Here begins Media
17	Q. Is a foreign-body reaction the same as	17	No. 2 in today's deposition of Sarah Kane, M.D.
18	the type of inflammation seen, for instance, in	18	Back on the record, 10:37 a.m.
19	ulcerative colitis? If you know.	19	BY MS. AHERN:
20	A. No, I'm just rereading the question.	20	Q. All right. Dr. Kane, we were we
21	Ulcerative colitis, you don't typically see	21	left off, we were talking about chronic
22	foreign-body reaction.	22	inflammation and cancer.
23	Q. Ulcerative colitis is one of the	23	Do you remember that?
24	conditions that has been associated with the	24	A. Yes.
25	development of cancer; correct?	ا م	0 01 0 11 416 6 4
		25	Q. Okay. Can you identify for me the
	Page 63	25	Q. Okay. Can you identify for me the Page 65
1	Page 63 A. Those with ulcerative colitis have an	1	Page 65
1 2			
	A. Those with ulcerative colitis have an	1	Page 65 types of ovarian cancer that have been associated
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Page 66 Page 68 inflammation, yes. 1 cancer, and so we don't really know all of the 2 mechanisms of the initiation of ovarian cancer. 2 Q. And you would agree that many, if not 3 But we know that chronic inflammation, we 3 most, cancers are somewhat proinflammatory. 4 see it in ovarian tumors. We know that -- and 4 A. I think tumors can be -- can be 5 putting it in a talc perspective, we know that 5 proinflammatory, yes. 6 talc can cause chronic inflammation and so -- and 6 Q. So the tumor itself can invoke an 7 we know that chronic inflammation causes other 7 inflammatory response during its development; 8 types of cancer. 8 correct? 9 Q. So is that -- can you name any other 9 A. Some tumors will. 10 types of ovarian cancers that have been 10 Q. And often the tumors will hijack 11 associated in the literature with chronic portions of the immune system to help them to 11 12 inflammation in terms of a specific etiology for 12 grow and metastasize; correct? 13 that cancer? 13 A. I'm not sure exactly what you mean by 14 A. So, again, I would say I don't know if "hijack," but there are mechanisms to -- or 14 we can say for certain what the specific etiology 15 15 literature to suggest that. is for all types of surface epithelial cancer, 16 16 Q. So just looking at a high-grade serous 17 but we do know that, again, clear cell has been 17 carcinoma and seeing inflammation doesn't tell associated with endometriosis, which causes 18 18 you anything about whether that inflammation 19 chronic inflammation, and we see chronic 19 caused the tumor or whether it was caused by the 20 inflammation in tumors. But the mechanisms for 20 tumor; is that correct? 21 these types of tumors have not been completely 21 A. So, again, the mechanisms are not that 22 mechan- -- elucidated. 22 clear, so we don't know for sure. But is all 23 Q. So do you not know of any other 23 chronic inflammation seen in a tumor the cause of 24 specific ovarian tumors that have been associated 24 the tumor? I don't know if we know the answer, 25 in the literature causally with chronic 25 but, you know, it's definitely an associated Page 67 Page 69 1 inflammation? 1 pattern that we see with ovarian tumors. 2 2 A. Again, I don't believe that the Q. So my question is a little different, 3 3 mechanisms of all of these tumors have been if I can go back and find it. And it's missing. 4 elucidated completely. 4 My question is: As a pathologist looking at 5 5 slides from a particular patient who has ovarian Q. And I do understand your answer, but I 6 just want to know if there are -- if you're aware 6 cancer --7 of literature connecting causally chronic 7 A. Mm-hmm. 8 inflammation with other types of ovarian cancer 8 Q. -- just the observation that there is 9 other than the two that you've mentioned, 9 inflammatory cells associated with that tumor 10 endometrioid and clear cell carcinoma. 10 doesn't tell you anything, as a pathologist, in 11 A. Well, again, I mentioned that in serous 11 terms of whether that inflammation caused the 12 tumors, we do see chronic inflammation in those 12 tumor or if the tumor caused the inflammation. 13 13 tumors A. Well, I think it depends on the 14 And with smoking and mucinous ovarian 14 situation. You know, again, for ovarian tumors, 15 cancers, you know, it's been -- there's some 15 if we have a clear cell carcinoma, we could, you 16 literature that suggests, you know, smoking is 16 know, deduce, especially if you see associated 17 associated with mucinous and those -- that can 17 endometriosis, that that is the likely cause, 18 cause inflammatory reactions. 18 and, again, depending on the patient and the 19 But, again, this is all -- it's not entirely 19 patient's risk factors. 20 clear what the etiology of some of these tumors 20 But, yeah, if you're looking just at one 21 21 slide without any other information, it would be 22 Q. You mentioned that in high-grade serous 22 difficult to say. 23 carcinoma, you see associated inflammation; 23 Q. Well, you would never just be looking 24 24 at one slide, would you? You'd be looking at all

18 (Pages 66 to 69)

of the slides that were available for a

25

correct?

A. You can see associated chronic

25

	Page 70		Page 72
1	particular patient, which would include	1	MS. AHERN: I'm not finished with my
2	diagnostic tissue or tumor tissue, as well as	2	question. You can object when I'm done with my
3	normal, nontumor tissue; correct?	3	question.
4	A. Right.	4	MR. ROTMAN: I object to you asking a
5	Q. Okay. So you would never be in a	5	question
6	situation where you're just looking at a single	6	MR. KLATT: She didn't have
7	slide and making a determination, unless it's	7	MR. ROTMAN: when she's asking
8	maybe cytology or a biopsy; correct?	8	MS. AHERN: I can ask a question
9	A. I'm sorry. I'm just looking at the	9	whenever I want. She doesn't have to answer the
10	Q. Sure.	10	question if you instruct her not to, but while
11	A. I'm not sure what the the first	11	she's spending time looking through her report,
12	question came out kind of funny.	12	I'm going to ask her a different question based
13	Q. What I was saying is there would never	13	on her recollection.
14	be a situation where you're only looking at a	14	MR. ROTMAN: Well, you've asked her a
15	single slide to make a diagnostic determination	15	question, she's in the process of answering it,
16	unless it was from a biopsy sample or a cytology.	16	and you're asking you're asking her a second
17	A. That's what I was going to kind of	17	question. That's what I'm objecting to.
18	rewind and clarify, that sometimes there is only	18	BY MS. AHERN:
19	one slide. So	19	Q. Doctor
20	Q. Is that an accurate statement?	20	MR. ROTMAN: Let her finish
21	MR. ROTMAN: Let her finish the answer.	21	Q can you answer the question without
22	I think she was saying "so" and then you asked	22	looking at your report?
23	another question.	23	A. Well, I'd like to refer to my report if
24	A. So in a larger specimen type, it's	24	you're asking questions.
25	correct you would be looking, usually, at more	25	Q. And that's fine. My only question,
	Page 71		Page 73
1	Page 71 slide if there's more tissue that would fit in	1	
1 2		1 2	Page 73 really, was, just based on your recollection as we sit here discussing chronic inflammation and
	slide if there's more tissue that would fit in one cassette to make one slide.	1	really, was, just based on your recollection as we sit here discussing chronic inflammation and
2	slide if there's more tissue that would fit in	2	really, was, just based on your recollection as we sit here discussing chronic inflammation and ovarian cancer, if you are aware of studies that
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Page 74 Page 76 1 MS. AHERN: Same. genomic event in the development of high-grade 2 2 Q. But since you brought it up, on Page 12 serous carcinoma? 3 3 of your report, can you translate for me that A. So, again, I don't know if I -- I don't 4 paragraph that you just read and put it in lay 4 know if we always know what the earliest 5 5 terms and explain how that has anything to do identifiable genomic event in the development of 6 with causal associations with ovarian cancer and 6 high-grade serous carcinoma is. 7 chronic inflammation caused by talc? 7 Q. Have you reviewed the literature on 8 MR. ROTMAN: Objection. 8 high-grade serous carcinoma from a molecular 9 A. Well, I think it's there in the report. 9 genetics perspective? 10 10 If talc is inducing macrophage TNF alpha A. Yes, I reviewed papers on molecular 11 11 expression and macrophages that express TNF alpha genetics, yes. 12 can promote ovarian tumor genesis that occur 12 Q. Do those papers indicate that one of 13 mostly in the -- TNF alpha-induced chromosomal 13 the earliest, if not the earliest, genomic event 14 14 mutations occur mostly in cells with P53 in the development of high-grade serous carcinoma 15 aberrations, I think that's relevant in looking 15 that has been identified are mutations in P53? 16 16 at evidence that -- for a plausible mechanism A. So, again, you can see P53 mutations, 17 17 that inflammation caused by talc can cause for example, in the fallopian tubes and you can 18 aberrations in -- can cause P53 aberrations. And 18 have sort of serous tubal intraepithelial 19 we know that high-grade serous carcinomas, many 19 carcinomas in the fallopian tube, which are 20 of them have P53 mutations. 20 thought to be early precursors for high-grade 21 Q. And high-grade serous carcinomas with 21 carcinoma. 2.2 P53 mutations, what causes the P53 mutations? 2.2 Q. High-grade serous carcinoma? 23 A. Well, again, the literature is still 23 A. Mm-hmm. Sorry, high-grade serous 24 evolving into all of the mechanisms regarding 24 carcinoma. 25 25 this. Some of them we know are sort of aberrant Q. And do you agree that the STIC lesions Page 75 Page 77 1 mutations, and we don't always know why they 1 or serous tubal epithelial carcinomas in the 2 2 fallopian tubes are currently known to be the 3 We know that women with BRCA1 and BRCA2 3 earliest manifestation of high-grade serous 4 mutations have -- can get high-grade -- have a 4 carcinoma? 5 higher risk of high-grade serous carcinoma. 5 A. Well, it depends on what you mean by 6 But, again, I don't think we know all of the 6 "manifestation." I mean, it takes a period of 7 mechanisms that cause, you know, all of these 7 time from initial insult until we can recognize 8 tumors. 8 something histologically as a precursor to 9 MS. AHERN: Objection. Nonresponsive. 9 cancer. 10 Q. Doctor, do you know, as we sit here 10 Q. That was -- you're right, that was a 11 today, what causes P53 mutations in high-grade 11 bad question. 12 serous carcinoma? 12 Do you recognize serous tubal 13 13 intraepithelial carcinomas as an in situ serous A. I think I answered that. We know, I 14 14 mean, what's in my report and women with BRCA1 carcinoma? 15 15 A. I think evidence is supportive of and BRCA2 mutations. But, again, the literature 16 is evolving with this. 16 serous tubal intraepithelial carcinomas being a 17 Q. Doctor, are you suggesting that BRCA1 17 precursor to some high-grade serous carcinomas. 18 and -2 mutations cause P53 mutations in 18 Q. And when you say "precursor," do you 19 high-grade serous carcinomas? 19 mean a frank cancer or a premalignant lesion? 20 A. What I'm saying is that we know that 20 What do you mean by "precursor"? 21 BRCA1 and BRCA2 mutation patients have a high 21 A. Well, again, not -- we don't know if 22 22 all STICs are going to become high-grade serous risk of ovarian cancer. 23 And so you're asking me what causes, so, you 23 carcinomas. STICs were originally discovered in 24 know, I'm telling you the data that we have. 24 looking at fallopian tubes of BRCA1 and BRCA2 25 Q. What is the earliest identifiable 25 patients that had -- what's the word I'm looking

Page 78 Page 80 1 for? -- prophylactic salpingectomies to decrease that ovulation event, you might end up with 2 their risk of ovarian cancer. 2 precursors. 3 And that was -- you know, they had evaluated 3 We don't really have a model in a lot of 4 4 these precursor lesions, and so the thought is ovarian cancers where you can follow a precursor 5 that when you have these atypical cells in the 5 all the way through to -- what we think is a 6 fallopian tube fimbria that are -- that have P53 6 precursor all the way through to the final tumor. 7 7 aberrations, that that -- the belief is that We just -- we don't really have a lot of data on 8 8 that's a precursor to some of the serous invasive those in-between steps. 9 9 carcinomas that we see. So it was very, very interesting when they Q. Do you consider STIC lesions to be 10 10 discovered these STIC lesions in the fallopian 11 11 tube fimbria that had P53 mutations. It was carcinomas? 12 12 A. They're -- the name is intraepithelial pretty compelling that these might be the 13 13 carcinoma, so its analogous term would be sort of precursor lesions to serous -- high-grade serous 14 14 an in situ cancer. carcinomas. 15 15 O. It is a cancer; correct? Now, are all high-grade serous carcinomas 16 16 caused by STIC lesions or are they all -- is a A. Well, they're calling them 17 intraepithelial carcinomas because they have -- I 17 STIC lesion a precursor to all serous -high-grade serous carcinomas? I don't think we mean, it's sort of semantics. They have a P53 18 18 19 19 mutation and they're recognizable histologically. know that. 20 Q. Do you agree that they're carcinomas or 20 Q. Do you know of any data associating 21 cancer? 21 high -- excuse me, associating chronic 22 A. I certainly agree that they can be 22 inflammation or injury with the development of 23 precursors to invasive serous carcinomas. It's 23 STIC lesions? sort of semantics, precursor -- it -- it's --24 24 A. So, again, I think the literature is 25 still evolving with this -- these STIC lesions. 25 it's sort of the same question as ductal Page 79 Page 81 1 1 carcinoma in situ in the breast. There's Q. Sorry. Were you finished? I don't 2 2 want to interrupt you if you're thinking. literature that debate about is ductal carcinoma 3 in situ a true cancer or is it a risk factor for 3 A. No, I'm thinking. 4 cancer, and what is the meaning of treatment for 4 Again, I don't think we really have the data 5 DCIS in the breast? And I would say that that's 5 on where these STIC lesions are coming from. 6 sort of analogous to STIC lesions in the 6 Q. As part of your literature review for 7 fallopian tube. 7 your MDL report, did you search specifically for 8 Q. Okay. Do you agree that most papers that might be linking or associating 9 high-grade serous carcinomas arise from the 9 chronic inflammation with early precursor lesions 10 10 endometrial cells in the fallopian tube? to serous invasive carcinomas or high-grade 11 A. High-grade --11 serous carcinomas? 12 Q. Epithelial cells in the fallopian tube. 12 A. I was certainly looking for literature 13 13 with the association of inflammation with ovarian Excuse me. 14 A. So, again, we -- this was something 14 cancer. 15 that the medical community really struggled with, 15 Q. With -- did you look specifically at 16 trying to find the precursor lesions to a lot of 16 the various subtypes of ovarian cancer? 17 these tumors. 17 A. Yes. 18 And for a lot of years it was thought that 18 Q. Is there a particular subtype of 19 maybe serous carcinomas derived from what are 19 ovarian cancer that you think is associated with 20 called epithelial inclusion cysts, so, basically, 20 talc use? 21 the thought was that during ovulation, you're 21 A. So most of the epidemiology literature 22 disrupting the surface epithelium of the ovary 22 show the highest association with high-grade 23 and when the ovary sort of heals itself, you get 23 serous invasive carcinoma. 24 this invaginated epithelium within the ovary and 24 Q. When you say "highest association," are 25 that maybe because of inflammatory response to 25 you talking about strength of association?

Page 84 Page 82 A. I'm talking about the -- for example, 1 1 A. So I think the most consistent finding 2 on the cohort studies, they found an association 2 is with high-grade serous carcinoma, but there's 3 3 data for the other types of surface epithelial with high-grade serous carcinoma. 4 And in a lot of the case-control studies, 4 carcinomas. 5 5 Q. And what are the surface types of when they looked at tumor subtype, a lot of those 6 carcinomas? 6 tumors were serous carcinomas. Now, some of them 7 A. So they're endometrioid and clear cell, 7 broke them out by relative risk by subtype; some 8 and mucinous less so than, I believe, the 8 of them didn't. I'd have to look at the papers. 9 endometrioid and clear cell, although I believe, 9 Q. Do you remember which cohort study 10 again, in the 2010 Nurses' Health -- is that --10 found an association with high-grade serous I'd have to go back -- I -- there was a mention 11 11 carcinoma? 12 of mucinous -- I'm not absolutely sure it was the 12 A. I believe the Nurses' Health Study. Gates 2010, but there was a mention of an 13 13 I'd have to look at it to see the numbers. 14 increased risk of mucinous in one of those 14 Q. Was there more than one cohort study 15 studies. 15 that you recall associated talc use with 16 Q. Do you agree that the different 16 high-grade serous carcinoma? 17 histologic subtypes of epithelial ovarian cancer 17 A. I'd have to look at them just to be are likely to have different genetic causes? 18 18 sure, but the one that I remember is the Nurses' 19 A. I know they're associated with 19 Health Study. 20 different genetic mutations. 20 Q. Are there any other subtypes, 2.1 Q. Do they develop along distinct 21 histologic types, of ovarian cancer that you molecular genetic pathways? 22 2.2 believe are associated with talc use? A. That's what the literature suggests at 23 23 A. Well, I think talc use -- I think talc 24 this point. 24 use could be associated with the -- any type of Q. Do they behave differently? 25 25 surface epithelial cancer. That seems to bear Page 83 Page 85 1 out in the epi data. They've certainly seen an 1 A. So the high-grade surface epithelial 2 2 association with different types of surface carcinomas have a more aggressive pathway or 3 epithelial cancers in the epi data, the strongest 3 presentation. The low-grade surface endothelial 4 association being with the serous invasive. 4 carcinomas tend to have a more indolent 5 Q. Have you seen any data supporting an 5 progression. 6 6 association with talc use and a low-grade serous Q. You've used the term "surface 7 7 carcinoma? epithelial carcinomas" and I haven't seen that 8 A. I'd have -- again, I'd have to look at 8 term generally used in the literature. 9 the different studies to break it out, but I know 9 When you talk about surface epithelial 10 10 there was a study that found an increased risk carcinomas, are you talking about serous or are 11 with serous borderline carcinomas. I'd have to 11 you talking about endometrioid or are you talking 12 look through the individual data sets. 12 about clear cell? Mucinous? Q. And serous borderline -- are -- serous 13 13 A. Epithelial carcinomas. 14 borderline tumors are not carcinomas; correct? 14 Q. That would encompass all of those, A. Sorry. I -- serous borderline tumors, 15 wouldn't it? Wouldn't surface epithelial 15 16 yes. I misspoke. 16 carcinomas encompass mucinous, clear cell, 17 Q. And you don't remember what study that 17 endometrioid, and serous subtypes? They're all 18 was that associated talc use with serous 18 epithelial ovarian cancers; correct? 19 borderline tumors? 19 A. Yes. That's what I'm referring to when 20 A. I would have to look at the data -- or 20 I -- because we also have germ cell tumors and 21 21 stromal tumors of the ovary. Those are much more the study. 22 Q. So do your opinions in this case apply 22 rare, and I'm not -- you know, I don't think 23 equally to all histologic subtypes of ovarian 23 there's associations with those. So, yes, we're 24 cancer or are there specific subtype or subtypes 24 talking about epithelial carcinomas, to be clear. that you are opining are caused by talc? 25 25 Q. Well, and just -- because I want to

	Page 86		Page 88
1	make sure your testimony is also clear.	1	Does that make sense?
2	So if we could, if you could use the	2	A. Okay. Yes. Okay.
3	specific subtype names, like serous or	3	Q. Okay. All right. So let me ask my
4	endometriod	4	question that I asked a little while again, and
5	A. Okay.	5	you tell me you can answer it again with the
6	Q or clear cell. That way there's no	6	terminology.
7	confusion later on about what you intended.	7	Do the different histologic subtypes of
8	So when you say let's see. Let me go	8	ovarian cancer behave differently?
9	down. Sorry.	9	A. Yes. Again, the high-grade ones
10	When you say "high-grade surface epithelial	10	generally behave differently than the low-grade
11	carcinomas," are you talking about high-grade	11	ones.
12	serous carcinomas?	12	Q. Okay. Do endometrioid and clear cell
13	MR. ROTMAN: Objection. You're asking	13	carcinomas behave differently from high-grade
14	her to reflect back on all of her prior answers	14	serous carcinomas?
15	to all of your prior questions, whether she was	15	A. The high-grade serous carcinomas tend
16	referring to the same thing in each one?	16	to behave more aggressively.
17	Q. Do you understand my question?	17	Q. Do low-grade serous carcinomas behave
18	A. I'd have to figure out what answer	18	differently from endometrioid, clear cell, and
19	you're talking about, but	19	high-grade serous carcinomas?
20	Q. So you just just a few questions	20	A. They tend to be less aggressive. They
21	ago, you answered I said, "Do the different	21	all tend to be less aggressive than the
22	types histologic types develop along the same	22	high-grade serous carcinomas or other high-grade
23	molecular genetic pathways?"	23	carcinomas of the ovary.
24	You said, "That's what the literature	24	Q. And are they thought to each have
25	suggests at this point."	25	different cells of origin?
		1	
	Page 87		Page 89
1	Page 87 I asked, "Do they behave differently?"	1	Page 89 A. Again, we're not entirely sure where
1 2		1 2	
	I asked, "Do they behave differently?"		A. Again, we're not entirely sure where
2	I asked, "Do they behave differently?" And then you responded, "So the high-grade	2	A. Again, we're not entirely sure where these tumors are arising from, particularly with
2	I asked, "Do they behave differently?" And then you responded, "So the high-grade surface epithelial carcinomas have a more	2 3	A. Again, we're not entirely sure where these tumors are arising from, particularly with mucinous carcinomas. I think mucinous carcinomas
2 3 4	I asked, "Do they behave differently?" And then you responded, "So the high-grade surface epithelial carcinomas have a more aggressive pathway or presentation. The	2 3 4	A. Again, we're not entirely sure where these tumors are arising from, particularly with mucinous carcinomas. I think mucinous carcinomas and there's also a type transitional cell, which
2 3 4 5	I asked, "Do they behave differently?" And then you responded, "So the high-grade surface epithelial carcinomas have a more aggressive pathway or presentation. The low-grade surface epithelial carcinomas tend to	2 3 4 5	A. Again, we're not entirely sure where these tumors are arising from, particularly with mucinous carcinomas. I think mucinous carcinomas and there's also a type transitional cell, which is very, very rare, and most of the literature,
2 3 4 5 6	I asked, "Do they behave differently?" And then you responded, "So the high-grade surface epithelial carcinomas have a more aggressive pathway or presentation. The low-grade surface epithelial carcinomas tend to have a more indolent" Were you talking about high-grade serous and low-grade serous carcinomas?	2 3 4 5 6	A. Again, we're not entirely sure where these tumors are arising from, particularly with mucinous carcinomas. I think mucinous carcinomas and there's also a type transitional cell, which is very, very rare, and most of the literature, when it comes to the epi data, don't really
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Page 90 Page 92 1 histologic subtypes have been associated in the 1 Q. -- this is an article by Karen 2 epidemiologic literature with different risk 2 Malmberg, et al., entitled "Serous tubal 3 3 intraepithelial carcinoma, chronic fallopian tube factors? 4 A. Yes. Again, I think we touched on some 4 injury, and serous carcinoma development," and it 5 of that before. There is an association with 5 was in Virchows Archives, March of 2016. 6 endometrioid and clear cell with endometriosis 6 MR. TISI: What did you mark this? I'm 7 and obesity. 7 sorry. 8 Mucinous carcinomas have shown to be 8 MS. AHERN: I marked this one 9. Thank 9 associated in some studies with a smoking 9 you. No -- yes, 9. 10 10 MR. TISI: Oh, I'm sorry. 11 High-grade serous carcinomas, it's a little 11 MS. AHERN: That's okay. 12 bit harder. We know that BRCA1 and BRCA2 12 Q. Do you recall if you've ever reviewed 13 patients have an increased risk. 13 this article? 14 Q. Now that we're on that topic of 14 A. It's possible. It's certainly possible genetics, do you know what proportion --15 15 that I have seen this before in just my daily 16 currently, what is believed to be the proportion 16 practice. I don't believe I cited it in any of 17 of ovarian cancers that are caused by germline 17 the references that I can remember, but it's 18 mutations? 18 highly possible that I've seen it. 19 A. Off the top of my head, I think -- do I 19 Q. Do you see the first page that -- you 20 have that in my report? But I -- I'm thinking 20 can just skip if you want, take your time reading 21 it's 10 to 20 percent, but that's off the top of 21 it if you'd like, but the authors conclude in 22 my head. 2.2 their study that there is no correlation with 23 Q. Have you seen any research coming out 23 chronic tubal injury or inflammation with the of Seattle Cancer Care Alliance over the last 10 24 24 development of STIC lesions or the existence of 25 or 15 years that indicates the number could be as 25 STIC lesions. Page 91 Page 93 1 high as a quarter of all ovarian cancers being 1 Do you see that? 2 linked to germline mutations? 2 A. No. Can you -- I'm sorry, can you point to me --3 A. That would roughly fit with what I just 3 4 said, 10 to 20 percent. I can't say for sure 4 Q. Oh, sure. 5 that I have seen that. I might have. But it 5 A. -- where? 6 fits with what I remember. 6 Q. Do you see the abstract, if you carry 7 Q. I had asked you earlier if you had 7 it over to the second column? 8 reviewed any literature relating to inflammatory A. Mm-hmm. Yes. 9 conditions and associations with early STIC 9 Q. It says, "STIC and invasive cancer were 10 10 seen more often in the older patients than in the 11 And you -- and, I'm sorry, I don't want to 11 vounger patients"? 12 misstate your response. What was your response 12 A. Mm-hmm. 13 13 Q. This study is -- small study, no 14 A. Had I reviewed literature? Yes, I've 14 correlation with chronic tubal injury or 15 seen literature. 15 inflammation was identified. 16 Q. Okay. 16 A. Yes, with the caveat -- that was a 17 (Article entitled "Serous tubal 17 conclusion with the caveat that it was a small 18 intraepithelial carcinoma, chronic 18 study. 19 fallopian tube injury, and serous carcinoma 19 Q. Have you -- as a gynecologic pathologist or a pathologist who has subspecialty 20 development" marked Exhibit 9.) 20 21 BY MS. AHERN: 21 training in gynecologic malignancies, how often 22 Q. I'm handing you what's been marked as 22 do you see chronic -- or evidence of chronic 23 Exhibit 9 to your deposition. And this is --23 inflammation surrounding STIC lesions? 24 MS. AHERN: I don't know if anyone else 24 Or strike that. How often do you see STIC 25 25 lesions? wants one.

	Page 94		Page 96
1	A. On certainly, I can't give you a	1	looks
2	number. I've certainly made the diagnosis and	2	MR. ROTMAN: Just so the record is
3	see it I can't give you a number of how many	3	clear, when you said "this," do you want to
4	times.	4	identify it?
5	Q. Have you ever been involved in a study	5	A. Sorry. The fourth edition belongs to a
6	looking specifically at STIC lesions and	6	colleague. The fifth edition is my own.
7	high-grade serous carcinomas?	7	MS. AHERN: Okay. We'll get to that
8	A. I have not been involved in a study,	8	one. I'll mark that next.
9	no.	9	Q. There is a photocopy here, "Blaustein's
10	Q. Have you ever seen evidence of chronic	10	Pathology of the Female Genital Tract, Fourth
11	inflammation with a STIC lesion?	11	Edition," Pages 300 and well, Page 376,
12	A. Off the top of my head, I am not sure.	12	Page 539, Page 540, 648, 1216, 1217, 1218.
13	It's possible, but I can't really answer that off	13	Is this a copy are these copies that you
14	the top of my head.	14	made?
15	Q. How often do you see chronic	15	A. Yes.
16	inflammation in the fallopian tubes associated	16	Q. Okay.
17	with high-grade serous carcinoma?	17	MR. TISI: Do you have a stapler?
18	A. You can certainly see it, but it sort	18	Otherwise I'll get one.
19	of goes along with the discussion that we had	19	MS. AHERN: No, I don't have one.
20	before. You can see chronic inflammation within	20	MR. TISI: No, I'll go get one.
21	the tumor, as well.	21	BY MS. AHERN:
22	And so I think, you know, the literature	22	Q. Can you tell me why you made those
23	is the research is ongoing as to, you know	23	copies?
24	Q. So once the tumor once there's a lot	24	A. I made them because it was easier than
25	of tumor burden in the abdominal cavity, it's	25	lugging around a whole textbook. That's why I
	Page 95		Page 97
1	difficult to tell where the inflammation is	1	Xeroxed them. But
1 2	difficult to tell where the inflammation is coming from or what started it; is that correct?	1 2	Xeroxed them. But Q. You had to bring it anyway.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	difficult to tell where the inflammation is coming from or what started it; is that correct? A. Well, if there's chronic inflammation in the tumor, it's likely the tumor has something to do with the chronic inflammation. But, again, you know, as we talked about before, I think sometimes it is difficult to tell. MS. AHERN: Okay. Housekeeping matters before I forget. Let me go ahead somehow and mark—let's mark—we can remove this later—"Blaustein's Pathology of the Female Genital Tract," Fourth Edition, as Exhibit 10 to your deposition. ("Blaustein's Pathology of the Female Genital Tract," Fourth Edition, marked Exhibit 10.) BY MS. AHERN: Q. And, Doctor, you brought this textbook with you today. Is this your textbook?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Xeroxed them. But Q. You had to bring it anyway. Sorry. Go ahead. A. But the particular pages that I copied are ones that talk about granulomatous reactions to talc in the female reproductive system. Oh, sorry. Okay. MS. AHERN: Okay. We'll go ahead and mark those copies as Exhibit 10 to your deposition. Q. And just to confirm MS. AHERN: Sorry. Are we on 10 or 11? We're on 11. Thank you. Q. As a MR. TISI: Is this the next one? MS. AHERN: Yeah. Hold on. I'm going to clarify it. Q. So this photocopy that you made from Blaustein's came from the fourth edition? A. Correct. Q. The textbook that we have here marked

25 (Pages 94 to 97)

	Saran E. I	T	п. Б.
	Page 98		Page 100
1	Blaustein's Pathology of the Female Genital	1	evidence, and it shows that talc can cause
2	Tract, Fourth Edition.	2	granulomatous or chronic inflammation in the
3	(Excerpt from "Blaustein's	3	female reproductive tract.
4	Pathology of the Female Genital Tract,"	4	Q. And how is uterine cancer related to,
5	Fourth Edition, marked Exhibit 11.)	5	for instance, high-grade serous carcinoma of the
6	BY MS. AHERN:	6	ovary?
7	Q. Okay. And can you tell me, with	7	A. Again, this is just evidence that talc
8	Exhibit 11, the specific information that you	8	can cause chronic inflammation and granulomas in
9	found relevant to your opinions in this case?	9	the endometrium, which I think is another piece
10	A. Okay. So on Page	10	of evidence that talc can cause chronic
11	MR. ROTMAN: You marked the copy as	11	inflammation and granulomatous inflammation in
12	Exhibit 11 and the book as Exhibit 10?	12	the female reproductive tract.
13	MS. AHERN: Mm-hmm.	13	Q. Doctor, shouldn't talc based on the
14	MR. ROTMAN: Okay.	14	literature that we have available to us over the
15	A. Okay. You have to bear with me,	15	last 50 years, shouldn't talc induce that
16	because I don't have any highlights or anything,	16	response in any tissue that it's found in?
17	so I have to find it.	17	A. Well, again, different tissues will
18	So Page 376, right down okay. The last	18	respond in different ways, but I think it also
19	paragraph under "Zanko Granulomatous	19	depends well, I'll just
20	Inflammation," it says, "Rarely, talc or another	20	Q. Well, as a pathologist
21	foreign substance may elicit a foreign-body	21	MR. ROTMAN: Wait. Wait. Are you
22	reaction in the endometrium. Talc may be	22	done?
23	introduced into the endometrial cavity by	23	MS. AHERN: Are you done?
24	instruments contaminated with talcum powder or by	24	THE WITNESS: I think so.
25	gloves during a pelvic examination. Patients may	25	Q. Okay. So as an anatomic pathologist
1	be asymptomatic or may have menorrhagia.	1	who knows something about granulomatous
2	Microscopically, the extent of the granulomatous	2	reactions, shouldn't a foreign body produce a
3	inflammatory reaction depends on the quantity of	3	foreign-body reaction in any tissue that it's
4	talc inoculated. The infiltrate is characterized	4	found in?
5	by histiocytes and foreign-body multinucleated	5	A. Not no, not always. Sometimes you
6	giant cells surrounding the talc crystals, along	6	will have a foreign body that won't cause a
7	with lymphocytes and plasma cells. The crystals	7	foreign-body giant cell reaction. It depends
8	appear as refractile, birefringent, needle-like,	8	on it depends on the particle, the foreign
9	or fan-shaped splinters in polarizing light."	9	body, the tissue it's in. You don't always see
10	Then on Page 530	10	that. And also the timing, when you're looking
11	Q. Sorry. Let me just let's take this	11	at it, versus how long it's been there.
12	in order.	12	Q. Well, the timing is just more or less
13	So what about that particular passage	13	when you observed it, not whether it occurred;
14	informs your causation opinions regarding talc	14	correct?
15	and ovarian cancer, if at all?	15	MR. ROTMAN: Objection.
16	A. So it is evidence that talc causes	16	A. So it's hard to know whether or not it
17	foreign-body giant cell reaction and chronic	17	occurred if it had been there for a long time
18	inflammation in the endometrium.	18	and you're looking years, you know, in years
19	Q. And that is the uterine tissue;	19	after it's been there, if you don't see a
20	correct?	20	granulomatous or chronic inflammation, that's no
21	A. That's the lining of the uterus,	21	evidence that it never occurred; it's just you're
22	correct.	22	not seeing it at that moment.
23	Q. And how does that inform your opinions	23	Q. Do you know of any any foreign
24	regarding the development of ovarian cancer?	24	bodies that generate tissue-specific reactions?
25	A. Well, I thought, again, it's a piece of	25	A. Well, we I mean, we certainly have
25	A. Well, I thought, again, it's a piece of	25	A. Well, we I mean, we certainly have

Page 102 Page 104 1 evidence with, say, viruses and bacteria that granulomas, which are caused by talc and 2 respond differently -- certain tissues will 2 cornstarch and certain other inert-type 3 respond differently to different infections. 3 materials; correct? 4 For esophageal cancer, there's some 4 MR. ROTMAN: Objection. 5 literature to suggest that very hot liquids 5 A. Again, you can have inflammation --6 increase your risk of esophageal cancer. So, 6 granulomatous inflammation due to infection, you can have granulomatous infection -- response due 7 yes, certain tissues will respond differently to 7 8 different material. 8 to foreign bodies, and you can have granulomas in 9 9 Q. So my question was -- it might be just certain diseases, like sarcoidosis or Crohn's 10 10 a little simpler to think of just this disease. 11 question -- do you know of any foreign bodies --11 So in that respect, yes, we're categorizing 12 I'm not talking about viruses and bacteria which 12 granulomas, but on a daily basis, other than that 13 cause immune responses -- but foreign bodies that 13 type of breakdown, we're not subcategorizing 14 14 generate a tissue-specific foreign-body reaction? granulomas. 15 A. Well, it's sort of semantics. I mean, 15 Q. But you are aware of the literature 16 16 viruses and bacteria -- that's why I answered the that actually characterizes the different types 17 17 of granulomas and the types of cells that are way I did -- are foreign to -- and, certainly, 18 foreign bodies can elicit immune response. 18 involved in the formation of those granulomas; 19 19 That's why you see granulomatous reactions and 20 chronic inflammation. 20 A. As far as foreign-body giant cells and 21 So I guess I'm not -- I think I answered the 21 multinucleated giant cells and inflammatory 2.2 question. 2.2 versus foreign body, yes. 23 Q. Pathologists distinguish the different 23 Q. So, you know, a granuloma caused by 24 types of granulomatous inflammation based on the 24 tuberculosis is going to be very different from a 25 25 cause of the inflammation; correct? granuloma caused by talc; correct? Page 103 Page 105 1 A. We look for -- if we see granulomatous 1 MR. ROTMAN: Objection. 2 2 inflammation in tissue, we certainly look for a A. I would say not necessarily. In 3 3 potential cause. We want to rule out infection, microbacterial infections, you can have necrosis 4 so if we see granulomas, we'll routinely do 4 within granulomas, but that doesn't mean that 5 5 special stains to rule out infection. Like we'll you're not necessarily going to see necrosis in a 6 6 do an acid-fast Bacillus stain for microbacteria. foreign-body granuloma. 7 7 We'll do fungal stains to rule out a fungal Q. How often have you seen necrosis 8 infection that causes inflammation. 8 associated with a foreign-body granuloma? 9 And then, of course, if we have -- if those 9 A. I'd say more commonly you see 10 10 are negative and we're trying to figure out if necrotizing or necrotic granulomas in infectious 11 there's a foreign body within a granuloma, we can 11 granulomas. 12 use polarized light to try to find the foreign 12 Q. There are different types of 13 body to identify it as a foreign-body giant cell 13 macrophages that are involved, too, in 14 foreign-body granulomas and in immune granulomas; 14 reaction. 15 15 But often you do have granulomatous 16 inflammation and you won't find fungi -- fungal 16 A. As far as macrophages themselves and 17 lesions -- fungal bodies or bacteria or 17 multinucleated giant cells that can form 18 birefringent particles on them, so you don't 18 granulomas. 19 necessarily know why you have a granulomatous 19 Q. There are different types, different 20 inflammation. 20 subtypes of macrophages that are involved in --21 Q. Pathologists categorize granulomatous 21 A. Yes. 22 inflammation, don't they? They categorize it in 22 Q. -- those activities; correct? 23 terms of the different types of immune granulomas 23 A. Yes. 24 and the etiologic agents for those granulomas, 24 Q. Okay. So there are differences between 25 25 and over here somewhere are the foreign-body a foreign-body granuloma and an immune granuloma?

Page 108 Page 106 1 A. There can be. cancer, which is sort of the plausibility arm of 2 Q. Well, there are, aren't there? I mean, 2 the Bradford Hill. I think it's compelling 3 there are papers that characterize these. 3 evidence that we see that you can get A. Yes, but I'm -- yes. In the 4 4 granulomatous inflammation and some of these 5 literature, yes. And -- but are we necessarily 5 sections have mentioned lymphocytes and plasma 6 categorizing them when we're looking at a 6 cells in the tissue. I mean, I think it's a 7 particular patient? We're looking for the cause 7 further piece of evidence that talc can cause 8 of the granuloma, but we're not necessarily 8 these -- this type of inflammation in female subcategorizing, is my point. 9 9 reproductive market. Q. Understood. 10 10 Q. How often have you, in your career, Oh, I'm sorry. We were talking about the 11 11 seen a talc granuloma in gynecologic specimens? 12 pages that you copied from Blaustein's. 12 A. We don't routinely do -- perform 13 What was the second page in that photocopy, 13 polarized light microscopy on ovarian tumors, 14 Exhibit 11? 14 partly because you really need electron 15 A. Okay. So Page 539. 15 microscopy. You can -- with polarized light Q. What was it on 539 that's relevant to 16 16 microscopy, you can tell that there's a foreign 17 your opinions in this case? 17 substance there, but that's pretty much as far as 18 A. Okay. I think it starts at the very 18 you can -- you can get. You need more testing to 19 bottom. I think it carries into Page 540, where 19 be able to determine what type of particle it is, 20 it starts talking about foreign-body reactions in 20 usually. So we don't, in daily practice, 2.1 the -- this is diseases of the fallopian tube. 21 routinely use polarized light microscopy. So it starts, "Foreign material may be 22 2.2 Now, it's entirely possible that, you know, introduced into the tube in the course of 23 23 in the course of my career, I've come across 24 gynecological investigation, especially 24 chronic inflammation or granulomas in an ovarian 25 hysterosalpingography, lubricant jelly, mineral 25 tumor that could have been due to talc that I Page 107 Page 109 1 oil, and starch and talc powder may cause lipoid 1 didn't polarize so I didn't see particles, I 2 2 or granulomatous salpingitis. Talc may cause 3 mucosal or serosal granulomas. Examination of 3 Q. So let me back up and just ask you: 4 all granulomas or foreign-body reactions under 4 How often in your career have you seen 5 5 polarized light is useful in the recognition of foreign-body granulomas? Regardless of whether 6 6 these processes." you've identified the particle in the granuloma, 7 7 So, again, I'm just referencing the fact how often have you seen foreign-body granulomas 8 that talc can cause granulomatous reaction in the 8 in gynecologic specimens? Not just tumors, but 9 fallopian tube. 9 any gynecologic specimens you've reviewed. 10 Q. So another tissue that's exposed to 10 A. No, I understand. 11 talc forms the typical type of foreign-body 11 O. Okay. 12 12 response? A. You can certainly see granulomas -- how 13 13 A. That can form a granulomatous reaction. often, I can't give you a number; that would just 14 Q. Okay. And does that in any way inform 14 be wildly guessing -- but you can see granulomas 15 15 in the endometrium. You can see them in your opinions on causation, other than 16 granulomatous reactions occur? 16 different types of tumor. 17 A. Well, so, again, it's another piece of 17 Sometimes it's -- you'll see granulomas, but 18 evidence that talc can cause a granulomatous 18 you won't see a particle, so you don't know for 19 reaction within the female reproductive tract. 19 sure if it's a foreign-body granuloma; you just 20 Now, the fallopian tube, we know some -- has 20 see the granuloma because you're not using 21 21 polarized light microscopy on it. been indicated as a precursor site for certain 22 high-grade serous carcinomas, so I think it's 22 MR. KLATT: Object. Nonresponsive. 23 relevant. 23 MS. AHERN: Same. 24 24 Q. So how often, though, in your career --But, again, you know, we're talking about 25 mechanisms that talc may eventually cause ovarian 25 you can give me an estimate -- have you seen

Page 112 Page 110 1 foreign-body granulomas in gynecologic specimens? foreign body, you're not necessarily going to be 2 MR. ROTMAN: Objection. 2 able to say whether or not it's a foreign-body 3 3 Q. I'm not talking about immune granuloma with absolute certainty unless you're 4 granulomas, but just foreign-body granulomas. 4 looking under polarized light microscopy. And 5 5 even then, you might not see it under polarized We'll start there. 6 MR. ROTMAN: Objection. You've asked 6 light microscopy, because it depends on the 7 that question. She's answered it. 7 section of the tissue you're looking at and --8 8 Q. Okay. Thank you. A. So, again, I've seen granulomas in my 9 career in the female reproductive tract, but I 9 And if you see a foreign-body response in 10 10 don't -- pathologists don't routinely use tissue, do you then go one step further and 11 11 polarized light microscopy in that instance to polarize to see if you can identify whether 12 look for foreign bodies. 12 that's got a foreign body in it? 13 Q. Okay. So are you done? 13 A. It certainly depends on the situation. 14 14 MR. ROTMAN: Can we take a break? So, for example, in cases where there's been 15 15 a surgery and they've taken out more tissue after MS. AHERN: Not just yet. Let me 16 16 finish this line of questioning and then we can surgery, you might be looking for polarizable 17 17 foreign body. Often, you can see a suture on take a break. Because we may want to -- what 18 18 light microscopy. But, yeah, we do -- depending time is it? 19 MR. ROTMAN: It's been an hour. 19 on the situation, we will use polarized light 20 MS. AHERN: 11:30. If we go a little 20 microscopy to find foreign bodies. 21 bit longer, we can break for lunch if you want. 21 MR. ROTMAN: Okay. 22 MR. ROTMAN: I just want to take a 2.2 Q. How often do you polarize specimens 23 break in the next few minutes. 23 where you've found a foreign-body response? How 24 MS. AHERN: Sure. 24 often do you do that? 25 25 A. I think -- I think I tried to come up Page 111 Page 113 1 BY MS. AHERN: 1 with an estimate. I think I have it in my 2 Q. Doctor, are you able, as a -- as a 2 report, actually, in the beginning. 3 pathologist, under regular light microscopy to 3 Yes. So I estimated that I use polarized 4 identify a foreign-body granuloma? Not the 4 light microscopy for this purpose, which is 5 content, just the foreign-body granuloma. 5 identifying foreign material to explain an 6 A. I would say it depends on the specific 6 inflammatory reaction, I estimated about twice a 7 granuloma. Sometimes, for example, in epidermal 7 month. It's an estimate. 8 inclusion cysts, you can see the keratin under 8 And I -- well, that was -- actually, I was 9 light microscopy that's causing the reaction, but 9 referring to calcium oxalate crystals in breast 10 you don't always -- you won't always necessarily 10 biopsies. That's different. So it's not 11 see a particle. They're very small. And unless 11 uncommon, let's put it that way, but I can't 12 you're looking specifically for polarizable 12 really give you a -- an estimate. 13 birefringent particles, you're not going to see Q. What was the estimate for breast 13 14 it just with regular light microscopy. 14 tissue? 15 Q. So my question wasn't -- and I thought A. I think it was twice a month, is what I 15 16 I was specific -- my question wasn't whether or 16 said. 17 not you could see the particle; my question was: 17 Q. So compared to looking for calcium 18 You should be able to see the foreign-body 18 crystals in breast tissue twice a month, how 19 response in terms of multinucleated giant cells. 19 often in gynecologic specimens do you look for 20 Do you -- can you see that under regular 20 foreign bodies? 21 light microscopy? 21 A. I would say slightly less than that. 22 A. Well, so you're categorizing it as a 22 Q. Maybe once a month, maybe less than 23 foreign-body granuloma. What I'm saying is you 23 that? 24 can see granulomas, of course, under light 24 A. Once a month is probably a good 25 microscopy. But if you're not looking for a 25 estimate, I guess.

Page 116 Page 114 1 Q. Do you know, based on your review of I mean, it's not -- it's not frequent that 2 the epidemiologic literature, what proportion of 2 you're going to find foreign-body giant cell 3 3 reactions in tissue, but, again, it doesn't mean women are said to use talc? 4 4 A. I believe I've seen in some of the that they weren't there. Maybe --5 Q. And this is based just on your 5 literature -- it depends on the population, I 6 experience. I know that -- I don't want you to 6 think. I think I saw -- well, again, I'd have to 7 guess about what might have been there --7 pull out the papers to be absolutely certain, but 8 A. Yeah, I'm --8 I remember there was a reference to 9 Q. -- but based on your experience as a 9 African-American women, about 50 percent of them 10 practicing pathologist. 10 using talc. 11 A. It would just be a pure guess at this 11 Q. Would you say that in 50 percent of the 12 point. I couldn't give you an accurate number. 12 gynecologic specimens you review, you find 13 Q. Do you see foreign-body reactions in 13 foreign-body granulomas or granulomas? 14 50 percent of the gynecologic specimens or cases 14 A. Well, I wouldn't necessarily expect --15 that you review? 15 I wouldn't expect to, just because, you know, 16 MR. ROTMAN: Objection. 16 again, we're looking at an ovarian tumor at a 17 A. I would say it's less than 50 percent. 17 very particular point in time. 18 Q. Is it less than 25? 18 How many granulomas -- how much talc is 19 A. I would say less than 25. 19 getting to the ovary, we don't -- we don't know 20 O. Less than ten? 20 how much talc is getting to the ovary. We know 21 A. Probably less than ten. 21 it's been found there, we know it can get there, 22 O. Less than five? 22 but we don't know with how much use, how much is 23 A. That's where I'm not exactly sure. 23 actually getting there. 24 Q. Okay. 24 So we wouldn't necessarily find a lot of 25 MS. AHERN: All right. We can go ahead 25 granulomas in ovarian tissue of women that use Page 115 Page 117 1 it, because we don't know exactly how much is 1 and take a break. Thank you. 2 THE VIDEOGRAPHER: Here ends Media 2. 2 getting there or we don't know how long those 3 3 granulomas are there once the tissue is in the Off the record, 11:44 a.m. 4 4 (A recess was taken.) 5 I mean, 20 years later, when you're looking 5 THE VIDEOGRAPHER: Here begins Media 6 at the -- at the ovary for a talc particle that's 6 No. 3 in today's deposition of Sarah Kane, M.D. 7 7 been there, we don't know if the granuloma would Back on the record, 12:02 p.m. 8 still be there or the chronic inflammation would 8 BY MS. AHERN: 9 9 Q. All right. Doctor, can we go ahead and still be there. 10 10 keep moving through that photocopy, Exhibit 11. Q. And my question wasn't specific to 11 ovarian tissue; it was just gynecologic 11 Can you tell me what the next page was? 12 12 A. Okay. We just read from Page 540, I 13 13 believe, so the next one is Page 648. Because you review more than ovarian tissues 14 14 Q. Okay. And tell me what on 648 caught when you're looking at gynecologic samples; 15 15 correct? your eye. 16 A. Yes. 16 A. Okay. It's the first paragraph under 17 Q. So looking at all of your gynecologic 17 "Noninfectious Granulomatous Peritonitis." So it 18 specimens, your vaginal, vulvar, endometrial, 18 says, "Foreign material typically recognizable on 19 tubal, ovarian, I guess omentum might fall in 19 histologic examination can elicit a granulomatous 20 there, how often do you identify foreign bodies 20 reaction on the peritoneum. Starch granulomas 21 21 from surgical gloves, douche fluid, and or foreign-body granulomas? 22 A. I would have to be -- a completely 22 lubricants typically incite a granulomatous and 23 ballpark guess, but, I don't know, maybe every --23 fibrosing peritonitis. In occasional cases, the 24 I'm really trying to figure out a somewhat 24 inflammatory reaction may be a tuberculoid type 25 25 with KCS necrosis. The periodic acid shift (PAS) ballpark figure. It's tough.

Page 120 Page 118 1 positive starch granules exhibit the 1 head. 2 characteristic Maltese cross configuration" --2 Q. And when you say "they" were looking 3 3 at, are you talking -- who are you talking about? THE COURT REPORTER: I'm sorry, you're A. When the -- when the regulatory -- if I 4 4 reading too fast. 5 recall -- did I put that in my report? -- they 5 THE WITNESS: I'm sorry. 6 removed -- I know that they removed starch from 6 A. "The periodic acid shift (PAS) positive 7 surgical gloves because it was causing an 7 starch granules exhibits a characteristic Maltese 8 inflammatory reaction. 8 cross configuration under polarized light. Talc 9 And they had started using starch more 9 was once an important cause of granulomatous and 10 commonly because talc had been removed from 10 fibrosing peritonitis because of its use as a 11 surgical gloves for also causing inflammatory 11 lubricant on surgical gloves and talc-induced 12 reactions. 12 peritonitis has been described more recently in 13 Q. And talc particles and cornstarch 13 drug abusers." I think that's kind of where it 14 particles cause the same foreign-body reaction in 14 15 the peritoneum and fibrosis; correct? 15 Q. Okay. And how does that passage that 16 A. Well, again, they can cause a 16 you just read inform your opinions in this case? 17 granulomatous reaction, but they're 17 A. Well, again, it's just another --18 bioabsorbable, so it's not going to be -- you 18 similar to the last pieces, this is the 19 know, when we're talking about talc, we're 19 peritoneum, so this is outside of the fallopian 20 talking about the talc in surgical gloves. And, 20 tube. Once particles are outside of the 21 you know, talc is not bioabsorbable and it will 21 fallopian tube, they are in the peritoneum. 22 stay in the peritoneum longer than starch, which 2.2 That's where the ovary is. And so it's 23 is bioabsorbable. So it will -- the inflammation 23 discussing foreign-body granulomatous reactions 24 will likely resolve more quickly. It's a 24 in the peritoneum. 25 different -- it's a different type of reaction 25 Q. And this question -- this passage that Page 119 Page 121 1 you just read also mentions that starch granules 1 because it's bioabsorbable. 2 2 from surgical gloves --Q. Well, they both cause granulomas; 3 A. Yes. 3 right? 4 Q. -- cause granulomatous and fibrosing 4 A. Mm-hmm. 5 peritonitis, which is the same that they mention Q. And they both cause fibrosis; correct? 6 6 A. They can cause fibrosis. 7 7 Would you say that starch granules, then, O. Does the biodurability of the causative 8 have the capacity to cause chronic inflammation 8 agent determine how long fibrosis exists? 9 that can lead to cancer? 9 A. Well, the fibrosis is thought to arise 10 A. Starch can cause inflammatory 10 from the inflammatory process. And since - I 11 reactions, but it's a -- very different, in that 11 don't know how much data is really there except 12 it's bioabsorbable, and so the particles are 12 to say that starch is bioabsorbable and talc is 13 absorbed in the body. And the literature hasn't 13 not. So talc is going to be available for an 14 14 supported a link between starch and ovarian inflammatory response more than a starch particle 15 15 cancer. 16 Q. How many studies have evaluated the 16 Q. Is the purpose of a foreign-body 17 association between starch and ovarian cancer? 17 granuloma to essentially wall off an irritant, a 18 A. I couldn't say, off the top of my head, 18 foreign body, from the rest of the tissue to 19 how many. But I know, you know, they looked at 19 prevent damage? 20 starch when they were evaluating whether or not 20 A. That can be one reason. 21 to remove it from surgical gloves, and they ended 21 Another reason is if the particle is large 22 up deciding to remove it from surgical gloves. 22 enough and one macrophage can't handle it because 23 And I -- I think at that point they had done 23 of its size, it will sort of recruit more 24 a literature search. I don't think there was --24 macrophages to the area to try to digest the 25 25 I don't know how many studies off the top of my foreign material, which is not going to -- they

Page 124 Page 122 1 won't be able to digest the talc particle. macrophages are continuously recruited to 2 Q. If they can't digest the particle, 2 foreign-body granulomas? 3 3 A. I know that I've read it in the course these macrophages will fuse to form a 4 of my daily practice. I can search at some point 4 multinucleated giant cell and surround the 5 for it, but I know that that's the case, because 5 particle to basically encapsulate it and prevent 6 I know that macrophages, again, have a certain 6 it from harming the surrounding tissue; correct? 7 lifespan. 7 A. It's possible that they would, yes, 8 But, you know, again, the inflammatory 8 they would recruit more macrophages and 9 response, we also don't know how long that 9 potentially do that. 10 inflammatory response is going to be there for 10 Q. Isn't that the purpose of a 11 sure. Is it possible that at some point the 11 foreign-body granuloma? 12 granuloma resolves and you get some fibrosis and 12 A. So, again, you can get well-formed -the talc particle or whatever particle is there 13 13 you can get well-formed encapsulated granulomas. 14 remains? I think that's possible and likely, in 14 You can also get sort of poorly formed granulomas 15 fact, because you do see resolution of granulomas 15 that are -- when more macrophages have been 16 with fibrosis. 16 recruited to that site. 17 Q. Is fibrosis associated with the 17 You can get a -- you can get a histiocytic 18 development of ovarian cancer? 18 reaction that isn't a well-formed granuloma in 19 A. There hasn't -- there hasn't been a 19 the sense that you're talking about, where it's 20 lot -- again, the causes of ovarian cancer are 20 kind of walling off the foreign body. You can 21 sort of -- the literature and the research is 21 get histiocytic reactions that aren't as well 22 still bearing all of it out, but from what I know 22 formed like that. 23 of the literature, I don't think that they found 23 Q. But we're just talking about the actual 24 fibrosis itself being an increased risk factor 24 granuloma itself, those particles that do result 25 for ovarian cancer. 25 in a well-formed granuloma. Page 123 Page 125 1 Once that granuloma has formed, it can 1 Q. Is fibrosis associated with chronic 2 2 persist for many years, can't it, without inflammation? 3 damaging the surrounding tissue? 3 A. It can be, yeah. Chronic inflammation 4 MR. ROTMAN: Objection. 4 can lead to fibrosis. 5 A. I think it would depend. Macrophages 5 Q. Do you know of any literature that has 6 have a certain lifespan, so it's going to be 6 linked talc granulomas introduced into the body 7 7 constantly recruiting different macrophages to through the use of talc-dusted surgical gloves 8 that site. 8 with any sort of cancer? 9 So I don't think we can say for certain that 9 A. So we know that talc can -- there are 10 10 the -- in fact, I think the body is still studies that have shown talc in the ovaries, and 11 reacting to that foreign body if it's still 11 we know that chronic inflammation has been 12 recruiting new macrophages in. 12 implicated in cancer. 13 Q. Do you know that for a fact based on 13 So if talc can reach the ovaries -- and we 14 your reading of the literature of granulomas, 14 also have evidence that talc causes chronic 15 that that's the mechanism behind a foreign-body 15 inflammation. So if talc reaches the ovary, I 16 granuloma, as opposed to an immune granuloma? 16 think it's a plausible mechanism for talc from 17 A. What I'm saying is -- is that 17 surgical gloves to cause an inflammatory reaction 18 macrophages have a certain shelf life, and so 18 and lead to cancer. I think that's plausible. 19 they will constantly recruit new macrophages to 19 And, again, that's the plausibility arm of 20 20 it. You know, that's a piece of the general that area. 21 Now, whether or not there's an exposure in 21 causation opinion, but, you know, they're still 22 that particle while it's in that process, I don't 22 piecing together a lot of the etiology of ovarian 23 think we can definitively say. 23 cancer. 24 Q. Can you cite to any papers that support 24 Q. Then why --25 your understanding of that process whereby 25 MR. KLATT: Objection, nonresponsive.

	Page 126		Page 128
1	MS. AHERN: Nonresponsive, yeah.	1	MS. AHERN: No. We're going back to
2	Q. Doctor, why are you so sure, then, that	2	this question.
3	talc causes ovarian cancer?	3	MR. ROTMAN: Okay. That's fine.
4	A. It's	4	So you're asking her again a question
5	MR. ROTMAN: Objection.	5	that she previously answered.
6	A. So I can lay out to you my methodology.	6	MR. KLATT: No
7	It's in the report. I did very in-depth,	7	MS. AHERN: I'm interested in
8	extensive review of the literature, which	8	MR. KLATT: a question she didn't
9	included the epi studies, animal studies, and	9	answer.
10	biologic studies.	10	MS. AHERN: the question she didn't
11	And I think well, I know that the epi	11	answer first.
12	studies have been very consistent with the	12	BY MS. AHERN:
13	increased risk associated with talcum powder	13	Q. Which is: "Do you know of any
14	product usage I'm talking about talcum powder	14	literature that has linked talc granulomas
15		15	introduced into the body through the use of
	product, what's in the bottle and perineal	16	
16 17	talc application with ovarian cancer.	17	talc-dusted surgical gloves with any sort of
	And I think if you're looking at if you	1	cancer?"
18	go through the methodology that I used and you're	18	Do you know or not know of any literature
19	looking at the Bradford Hill analysis, which I've	19	that supports that?
20	laid out in the report, I've come to the	20	A. Well, first of all, I think we're
21	professional you know, my professional	21	talking about you're talking about surgical
22	judgment is that the talcum powder products	22	glove talc, right, which is pharmaceutical-grade
23	weighing everything, that talcum powder products	23	talc, which is different from the talcum powder
24	cause ovarian cancer.	24	product that I'm opining about.
25	And I know and, interestingly, about	25	And we know that these talc particles can
	Page 127		Page 12
1		1	Page 12
1 2	three weeks after I wrote my report, there was		Page 12: get to the ovary and we know that talc can cause
	three weeks after I wrote my report, there was the Health Canada report that, in reading their	1	Page 12 get to the ovary and we know that talc can cause chronic inflammation.
2	three weeks after I wrote my report, there was the Health Canada report that, in reading their methodology and the literature that they	1 2	Page 12 get to the ovary and we know that talc can cause chronic inflammation. Q. Doctor, first question about your
2 3 4	three weeks after I wrote my report, there was the Health Canada report that, in reading their methodology and the literature that they reviewed, was very similar to what I reviewed and	1 2 3 4	get to the ovary and we know that talc can cause chronic inflammation. Q. Doctor, first question about your answer is: What makes you think that cosmetic
2 3 4 5	three weeks after I wrote my report, there was the Health Canada report that, in reading their methodology and the literature that they reviewed, was very similar to what I reviewed and my methodology. And they came to the same	1 2 3 4 5	get to the ovary and we know that talc can cause chronic inflammation. Q. Doctor, first question about your answer is: What makes you think that cosmetic talc used in Johnson & Johnson baby powder is no
2 3 4 5 6	three weeks after I wrote my report, there was the Health Canada report that, in reading their methodology and the literature that they reviewed, was very similar to what I reviewed and my methodology. And they came to the same conclusion.	1 2 3 4 5	get to the ovary and we know that talc can cause chronic inflammation. Q. Doctor, first question about your answer is: What makes you think that cosmetic talc used in Johnson & Johnson baby powder is no pharmaceutical-grade talc?
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Page 130 Page 132 1 But pharmaceutical-grade talc, if we're A. Well, I think I've answered, like, to 2 talking about talc that's used in pleurodesis, 2 me, it doesn't -- it doesn't really matter 3 3 what -- the difference between pharmaceutical for example, is going to be different than talcum 4 powder products in the bottle --4 talc and talcum powder products; it's whatever is in that talcum powder products -- product, 5 5 Q. Okay. 6 A. -- cosmetic talcum powder products. 6 whatever is in the bottle that women are buying 7 7 Q. So how is it different? off the shelf and applying to their perineum. 8 8 A. So, again, I didn't do my own analysis MR. KLATT: Objection. Nonresponsive. 9 as to what is in the talcum powder product, but 9 MS. AHERN: Objection. Nonresponsive. 10 10 Q. My question was -- originally was: Do that's what I am -- that's what my general 11 causation opinion is on, is the talcum powder 11 you know of any literature that connects talc 12 product in the bottle, that regular perineal use 12 dust of surgical gloves and any sort of cancer. 13 of that causes ovarian cancer. 13 And then you said, "First of all, I think 14 14 we're talking about surgical glove talc, which is Q. My question to you is: What do you 15 understand the difference between the talcum 15 a pharmaceutical-grade talc, which is different 16 powder products and pharmaceutical-grade talc --16 from the talcum powder product that I'm opining 17 MR. ROTMAN: Objection. 17 about." 18 18 O. -- to be? So what I'm asking you is: What is 19 A. So I've seen evidence that in talcum 19 different about the talcum powder product that 20 20 powder products, there are heavy metals. There you're --21 are fragrances that are added to the talcum 21 A. It's what I'm opining about. You know, 22 powder product that, in talc used for 22 I haven't --23 pleurodesis, they wouldn't be adding fragrances 23 O. Right. 24 to that type of talc. 24 A. -- looked at the talc that's used for 25 Q. Would -- you're not saying that talcum 25 pleurodesis, for example. It's what I'm Page 131 Page 133 1 powder products that are sold to consumers have 1 separating out. 2 2 been altered to add heavy metals, are you? I've looked at the talcum powder product 3 A. Well, I've seen the report of 3 that women use on their perineum, what they 4 Dr. Crowley that looks at heavy metals and 4 bought off the shelf. I haven't looked at 5 fragrances in the talc, the baby product talc 5 pharmaceutical-grade -- let me correct that --6 powder that he examined. I did not do my own 6 pleurodesis talc, for example. I have not looked 7 analysis of that. 7 at pleurodesis talc and ovarian cancer. I have 8 Q. Does pharmaceutical-grade talcum powder not looked at any literature specifically on 9 also have associated metals and sometimes heavy 9 that. It's been the talcum powder products that 10 10 women are buying off the shelf and using on their metals? 11 A. I'm not sure if I've seen data as to 11 perineum. 12 what is specifically in pharmaceutical-grade 12 Q. So if I told you that Johnson's baby 13 talcum powder, but, again, to me, what is 13 powder starts out as pharmaceutical-grade talc 14 important is the ultimate product and what is in 14 and that, beyond that, fragrance is added, would 15 that bottle. It can -- whether it's platy talc, 15 it be the fragrance that you're taking issue with 16 fibrous talc, asbestos, heavy metals, fragrance 16 that you believe is causally associated with the 17 17 development of ovarian cancer? 18 I mean, to me -- you know, I've seen 18 A. Again, I -- it's whatever is in that 19 evidence of those things in that product, but to 19 bottle. It could be platy talc, fibrous talc, 20 me, what I'm looking at is the final product when 20 asbestos, heavy metals, fragrance. It -- to me, 21 it comes to causing ovarian cancer. 21 it's the product, whatever the product is that 22 Q. So what is different about that final 22 they are using. 23 product and pharmaceutical-grade tale? What 23 Q. And you have done a biologic 24 specific components have been added to that that 24 plausibility analysis for fragrances, for metals, 25 25 for asbestos, for fibrous tale, and for platy affect your opinions in this case?

	Page 134		Page 136
1	talc	1	consistency piece of it.
2	A. So	2	Q. Can I ask you you can go through all
3	Q each one of those constituents?	3	of it if you want, but would you rather break it
4	A. So I have looked at evidence so	4	down piece by piece?
5	Dr. Crowley's report, I mentioned. I've looked	5	MR. ROTMAN: She should answer your
6	at Dr. Longo's report. I've looked at Hopkins	6	question.
7	and the Pier charts from their depositions. I'm	7	MS. AHERN: I'm not sure she's
8	aware of evidence that these heavy metals and	8	answering my question. My question was: How do
9	fragrances and asbestos are in there.	9	you come up with causation when you don't know
10	However, I haven't done what I know, I	10	what the exposure is?
11	looked at the I've looked at some literature	11	MR. ROTMAN: I think she's answering
12	and I've looked at the IARC categorization of the	12	the question.
13	heavy metals. I've looked at Dr. Crowley's	13	MR. TISI: That wasn't the question.
14	report and I've done an extensive look at	14	The question was: Do you need to know the agent?
15	asbestos and ovarian cancer.	15	And she said the agent is the product.
16	But, ultimately, those are just pieces of	16	BY MS. AHERN:
17	biological plausibility. What I'm mainly what	17	Q. The agent is everything in it?
18	I am opining about is the ultimate product. And,	18	A. Yes, the agent is whatever is in that
19	again, it can be platy talc, it can be fibrous	19	talcum powder product.
20	talc, it can be asbestos, it can be heavy metals.	20	Q. So are you basing, then, your causation
21	It's pieces of information that strengthen	21	conclusions on the epidemiologic literature
22	the plausibility. We know that asbestos causes	22	alone?
23	ovarian cancer, that certain heavy metals are	23	A. The epidemiologic literature is very
24	carcinogens, which the IARC categorized them as.	24	comp
25	So it's just it's just additional pieces of	25	MR. ROTMAN: She was not done with her
	Page 135		Page 137
1		1	
1 2	information that strengthen the biological	1 2	Page 137 earlier answer. Now you've gone two more beyond it.
			earlier answer. Now you've gone two more beyond
2	information that strengthen the biological plausibility arm of it.	2	earlier answer. Now you've gone two more beyond it.
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Page 138 Page 140 an answer about the epi studies are looking at generally accepted knowledge of the disease in 1 2 the product that the women are using, and you 2 question. 3 3 were talking about strength of association and So we know that particles can reach the 4 then you said, "And that's consistent across 4 ovary. We know that talc can cause chronic 5 studies. That's the consistency piece of it," 5 inflammation. We know that chronic inflammation 6 and then you were interrupted. 6 is associated with certain types of cancer. We 7 So were you done with your answer to 7 know that certain types of ovarian cancer have 8 that earlier question? 8 shown association with chronic inflammatory 9 9 THE WITNESS: I can continue, because I conditions. 10 10 think it's important. So, again, going through all this is 11 11 I mean, I was -- my general causation experiment and analogy, experiment with the 12 opinion, the methodology I used was to answer the 12 animal studies and the in vitro studies. And 13 question: Does perineal application of talcum 13 analogy, I used the example of asbestos, because 14 powder products, the, you know, baby powder 14 even though asbestos is -- you know, asbestos is 15 product that you buy off the shelf, does that 15 chemically similar, you can have asbestos fibers 16 cause ovarian cancer? So it's whatever is in 16 and talc fibers, but it's a similar mineral 17 17 that bottle. chemically, and we know that that is a 18 18 So with the methodology that I used, carcinogen. So that's part of the analogy. 19 19 looking at the epi data, but also considering the But, again, it's the whole picture. I 20 Bradford Hill criteria -- which, you know, 20 mean, you look at the -- all of this data 21 looking for specificity is another one. So most 21 following my methodology and you apply the 22 of the studies showed a stronger -- a strong 22 Bradford Hill criteria guidelines -- the Bradford 23 association with serous ovarian cancer, but it 23 Hill guidelines. And, looking at all that, my 24 24 professional judgment is that the talcum powder was basically associated with epithelial ovarian 25 25 cancer, so all groups of epithelial ovarian products can cause ovarian cancer. Page 139 Page 141 1 cancer. It was pretty specific, the epi data, 1 Q. Okay. Are you done? I don't want to 2 2 for that type of ovarian cancer. interrupt you. 3 3 Temporality. If you look at that, I A. I think I answered the question. 4 mean, the case-control studies are retrospective 4 Q. Okay. One of the things, and I guess a 5 5 reviews, so we know that they were using talc major component of the talcum powder products, 6 before their diagnosis of ovarian cancer. 6 would be talc; correct? 7 7 Biological gradient. For those studies A. Presumably -- it's called talcum 8 that looked at a biological gradient, there was 8 powder, so presumably, talc would be a 9 an evident -- there was evidence of a 9 constituent. 10 dose-response, not all of the times statistically 10 Q. Do you know what percentage of talcum 11 significant, but the trend -- you can see a trend 11 powder products is tale? 12 of a dose-response across studies. 12 A. Again, I did not do my own analysis as 13 And then we get into the plausibility 13 to how much tale was in that product. 14 14 Q. Do you know whether any of the heavy piece, which you've been discussing mostly so far 15 15 in this deposition, which has to do with the metals that you looked at or were examined by 16 plausible mechanism of talcum powder -- what I'm 16 other experts in this litigation, whether any of 17 thinking of, talcum powder products -- whatever 17 those are known carcinogens for the ovary? 18 is in that bottle was what I'm looking at --18 A. So it's another piece of information. 19 talcum powder products causing -- the 19 There is not, to my knowledge -- looking at what 20 plausibility of it causing a chronic inflammatory 20 the IARC looked at, there's not data right now on 21 response, leading to ovarian cancer. We've been 21 those heavy metals and ovarian cancer, but 22 22 discussing that quite a bit today. it's -- it's a -- it's a piece of the puzzle. 23 And then coherence. So I can refer 23 It's a piece of information. 24 again to my report. Coherence, in this context, 24

The IARC has called some of them

carcinogenic, some of them probably carcinogenic,

25

25

means coherence between epidemiologic and

Page 142 Page 144 1 so we know that they can cause cancer. And if little too wide a net. I think science is always 2 they're in the talcum powder products, then it's 2 evolving and there's always the possibility of an 3 just another piece to the puzzle of plausibility. 3 unknown cause of a certain type of cancer. Q. Are you saying that the probably MS. AHERN: Objection. Nonresponsive. 4 4 5 carcinogenic category for IARC means that they 5 Q. My question was just: Can carcinogens 6 can cause cancer? 6 be organ specific? 7 7 A. Well, we can look at what the IARC 2A A. And I feel like I answered that fairly. 8 8 categorization -- category actually says, what Q. Do you know of carcinogens that are they break it down. But my understanding is 9 9 organ specific? it's -- probably carcinogenic means it probably 10 10 A. I know -- for example, we know that H. causes cancer, more likely than not, probably 11 Pylori causes increased risk of gastric cancer, 11 12 causes cancer. 12 but not oral or esophageal cancer. Q. How many categories does IARC have? We know that HPV infection can cause 13 13 14 A. They have four. 14 cervical cancer, anal cancer, certain types of Q. What is the -- what is Category 1? 15 15 squamous cell carcinomas of the oropharyngeal A. Carcinogenic. system, but not, you know, of the endometrium, 16 16 17 Q. Known to be carcinogenic? 17 for example. 18 18 A. Mm-hmm. So we know that certain things cause certain 19 O. And then the next? 19 cancers and aren't -- haven't been associated 20 with other types of cancers. But to cast that 20 A. Probably carcinogenic. 2.1 Q. And then? 21 wide a net, to say that a carcinogen is only A. Possibly carcinogenic. 22 going to cause one type of cancer or this cancer 22 O. And then? 23 is caused only by this carcinogen, I think that's 23 A. I think it's unclassifiable. I have to 24 too wide a net, because I feel like research is 24 25 look. But I think it's uncertain, basically. constantly evolving. We're constantly learning 25 Page 143 Page 145 1 Q. And then what is the last? 1 of new causal factors in cancer. 2 2 A. And then known not to be carcinogenic. Q. Do you think that dose is an important Q. How many agents are in the known not to 3 3 consideration when you're looking at the 4 be carcinogenic category? 4 toxicologic effects of an agent on a tissue? 5 A. Very, very few. 5 A. I think it is a piece of information. 6 Q. One; right? 6 I'm looking at my biological gradient portion of 7 A. That's plausible. I haven't looked at 7 my report, and I said in my report that it was an 8 the list recently. 8 important factor in my analysis because it does 9 Q. So going back to the major component, 9 add information to the overall causality. 10 10 you don't know what percentage of talcum powder Q. Are there agents that can be toxic at 11 products are actually talc? 11 certain levels and not toxic at other levels? 12 MR. ROTMAN: Objection. 12 A. There are certainly agents that are 13 A. I have not done my own analysis as to 13 more toxic with increased exposure and increased what the components are of that talcum powder --14 14 duration. We don't know all of the thresholds 15 of the talcum powder products. 15 for carcinogenicity of all carcinogens. 16 Q. Do you agree that carcinogens can be 16 Q. As part of the biologic plausibility 17 organ specific? 17 analysis that you would do on a particular agent, 18 A. I will agree that certain tissues 18 would that take into consideration the relative 19 respond to certain things differently. 19 levels of exposure that a person would have to 20 Q. Do you agree that carcinogens can be 20 that agent? 21 21 A. Well, dose-response -- I -- I'm taking organ specific? 22 A. Certain tissues respond to certain 22 it -- your question -- can you rephrase the 23 things differently. If you're casting that wide 23 question? I'm sorry. I just want to make sure 24 a net to say that one specific carcinogen only 24 I'm answering it accurately. 25 causes one type of cancer, I think that's a 25 Q. To determine whether it's biologically

Page 148 Page 146 1 plausible for a particular agent to cause a and ovarian cancer. I certainly saw some of the 2 particular harm, would you need to be able to 2 data about tale migration and cornstarch on 3 3 characterize the dose of that agent that is surgical gloves migration, but I didn't 4 4 required to elicit the effect that you're looking specifically -- I don't know if -- I don't even 5 know if that study has really been done. 5 6 Q. Did you consider the publications on 6 A. I think it's a piece of the 7 talc responses -- or, excuse me, did you consider 7 information -- a piece of information, but you're 8 the publications on granulomatous reactions to 8 not always going to be able to determine a 9 talc from surgical gloves to be relevant to your 9 dose-response. It's going to depend on the 10 biologic plausibility analysis? 10 carcinogen, the agent, the routes of exposure. 11 A. It's a piece of information that 11 You're just not always going to have that data, 12 talc -- now, again, surgical glove talc, for me, 12 unfortunately. It would be nice to have, but 13 is different than the talcum powder products. 13 you're not always going to have it, and you don't 14 You know, my general causation opinion -- I 14 necessarily have to have it to come to 15 just want to be clear -- is about, you know, plausibility. 15 16 talcum powder products, not the talc used in 16 Q. And do you have well-characterized 17 pleurodesis, not talc on surgical gloves. 17 levels of exposure to the ovaries for women who 18 Having said that, I think it's an important 18 are using talc perineally? 19 piece of information to know that talc on 19 MR. ROTMAN: Objection. 20 surgical gloves can cause a granulomatous 20 A. So some of the -- we're never really 21 reaction, because that is further evidence for 21 going to be able to figure out what an actual --22 plausibility that talcum powder products --2.2 to characterize what an actual dose -- dose of 23 they're called talcum powder products, so, again, 23 talcum powder product of what -- of a talcum 24 it's sort of an assumption. It doesn't really 24 powder product in a particular use. We don't 25 matter to me what's in there, but my assumption 25 know how much a woman is putting on her hand to Page 147 Page 149 1 place into the perineum. We don't know how much 1 is that whatever -- the talc or whatever is in 2 2 of that product is getting to the ovary. We know that product is causing the -- a chronic 3 that it can get to the ovary because we've seen 3 inflammation. And so it's part -- it's a piece 4 talc in the ovary. But where -- it's extremely 4 of evidence for the plausibility. 5 5 difficult in this type of situation, when women Q. So are you not aware of any studies, 6 6 use the product differently, to know what the based on the review that you did conduct, that 7 7 dose -- what a single dose is. link surgical glove talcum powder with the 8 Now, if you're talking long-term, frequent 8 development of any cancer? 9 use of talcum powder products, of course, the 9 MR. ROTMAN: Objection. 10 10 exposure is going to be greater than a single use A. So I'm not sure how you could do that. 11 of that product. 11 If you're looking at patients who -- I think that 12 But are we ever going to know what one dose 12 would be a very difficult study to design. 13 of talcum powder product is? I don't think we're 13 If you're looking at women -- if you're 14 14 going to be able to say that and how much of one doing a case-control study -- I'm just 15 dose reaches the ovary. 15 thinking -- and you're looking at patients who 16 But, certainly, again, with -- over time, 16 have been diagnosed with ovarian cancer who have, 17 increased frequency and duration, it's -- you 17 at any time, had surgery during the time period 18 know, more of that product is going to reach the 18 that talc was used on surgical gloves, I think 19 19 that would be a difficult study. 20 Q. So going back to the discussion we had 20 Q. My question to you was --21 earlier about surgical glove talc, do you know of 21 MR. KLATT: Objection. Nonresponsive. 22 any literature that links exposure to talcum 22 Q. My question to you was: Are you aware 23 powder -- pharmaceutical-grade talcum powder from 23 of any studies or literature that link 24 surgical gloves to any kind of cancer? 24 talc-dusted surgical gloves to the development of 25 25 A. I did not opine on surgical glove talc any kind of cancer?

	Page 150		Page 152
1	MR. ROTMAN: Objection.	1	could be helpful information to my general
2	THE WITNESS: My thing is not	2	causation opinion. So it's possible that I did.
3	MR. ROTMAN: There's a button you can	3	Q. Is it in your report or cited in any of
4	push.	4	your reference lists?
5	THE WITNESS: Oh, "follow."	5	A. Again, I can look through my whole
6	MR. ROTMAN: Do you see the button	6	reference list. It's the same answer. Off the
7	that's flashing on the right-hand	7	top of my head, I don't know the answer to that.
8	THE WITNESS: Yeah.	8	Q. Do you know of any studies or any data
9	MR. ROTMAN: side? If you hit that,	9	that link foreign-body granulomas to the
10	it should go to the bottom.	10	development of any kind of cancer?
11	THE WITNESS: Okay. I see. Yup.	11	A. Well, we know that asbestos can cause a
12	MS. AHERN: And I'll withdraw that,	12	
13	because there's the question asked first was,		granulomatous reaction and asbestos is certainly
14	I think, better. I slightly modified it on	13	associated with mesothelioma and lung cancer.
15	accident.	14	Q. Are there other biologic properties of
16	BY MS. AHERN:	15	asbestos that contribute to its carcinogenicity?
17	Q. Are you aware of any studies, based on	16	A. It can provoke a reactive oxygen
18	your review, that link surgical glove talcum	17	species inflammatory response.
19	powder with the development of any kind of	18	Q. Can it disrupt DNA?
20	cancer?	19	A. It can based on that mechanism, yes.
21		20	Q. Have you seen any studies or data
22	And, Doctor, to be clear, I'm only interested in whether you know of a study, not	21	suggesting that talcum powder can do those
23	· · · · · · · · · · · · · · · · · · ·	22	things?
24	whether one could be conducted.	23	A. I've seen studies that show that talcum
	A. Off the top of my head, it's possible	24	powder can increase production of reactive oxygen
25	that one exists, but I can't come up with one off	25	species and can change gene expression in
	Page 151		Page 153
1	the top of my head.	1	mesothelial cells. So, yes, I mean let me go
2			
4	Q. Do you know of any data linking	2	
3	Q. Do you know of any data linking surgical glove talcum powder with the development		back to your question.
	surgical glove talcum powder with the development	2	back to your question. So I would say, yes, there are studies that
3	surgical glove talcum powder with the development of any cancer?	2 3	back to your question. So I would say, yes, there are studies that show talc can cause the production of reactive
3 4	surgical glove talcum powder with the development of any cancer? MR. ROTMAN: Objection.	2 3 4	back to your question. So I would say, yes, there are studies that show talc can cause the production of reactive oxygen species and reactive nitrogen species,
3 4 5	surgical glove talcum powder with the development of any cancer? MR. ROTMAN: Objection. A. It would be my same answer.	2 3 4 5	back to your question. So I would say, yes, there are studies that show talc can cause the production of reactive oxygen species and reactive nitrogen species, which can disrupt DNA, similar to asbestos.
3 4 5 6	surgical glove talcum powder with the development of any cancer? MR. ROTMAN: Objection. A. It would be my same answer. Q. That you don't know, but there might	2 3 4 5 6 7	back to your question. So I would say, yes, there are studies that show talc can cause the production of reactive oxygen species and reactive nitrogen species, which can disrupt DNA, similar to asbestos. Q. How do reactive oxygen and nitrogen
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Page 154 Page 156 1 the development of ovarian cancer? 1 get it. 2 A. So there have been some studies that 2 THE WITNESS: Oh, I'm sorry. 3 3 have looked at anti-inflammatory drugs, aspirin A. "Ovarian cancer may be analogous, 4 and NSAIDs in particular. 4 therefore, to plural mesothelioma, which has been 5 The data on NSAIDs has been less consistent, 5 shown to be caused by asbestos, a chemical 6 but the data on aspirin has been consistent, in 6 similar to talc." 7 that it lowers the risk of ovarian cancer with 7 Q. Is that the complete passage that 8 regular aspirin use. 8 you're looking at? 9 And aspirin, one of the mechanisms of action 9 A. I believe that is why I had highlighted 10 is on the cyclooxygenase expression, which is 10 that one, yes. 11 similar to the cyclooxygenase expression seen in 11 Q. You'd agree that this version of 12 some of the in vitro studies. 12 Blaustein's textbook was published in 1994? 13 Q. So my question was: Have you seen any 13 A. Yes, I am aware. 14 studies in animals or in humans that have linked 14 Q. Would you agree that a number of the 15 specific enzymes that Dr. Saed has evaluated in 15 risk factors that have been identified here, his cell studies to the development of ovarian 16 16 there have been additional studies published on? 17 cancer? 17 18 MR. ROTMAN: Objection. 18 Q. Would you agree that alcohol is a known 19 Q. Are you relying, then, on epidemiologic 19 risk factor these days for ovarian cancer? 20 studies looking at NSAID and aspirin use? 20 A. I don't think that's been borne out to 21 MR. ROTMAN: Objection. 21 be the case. But with talc, there's continued to 22 A. I'm saying that the NSAID and aspirin 2.2 be several case controls and meta-analyses which 23 use is another piece of information that -- as to 23 have continued to be consistent with the plausibility, mechanism -- and mechanism of 24 24 increased risk of ovarian cancer cited in the 25 regulation of pathways that can result in 25 studies that were cited here, which I didn't Page 155 Page 157 1 reactive oxygen species and cause an inflammatory 1 actually Xerox. You have the book, so --2 Yes, I agree this was 1994, but taken into 2 3 MR. KLATT: Objection. Nonresponsive. 3 context of the subsequent studies and literature 4 MS. AHERN: Same. 4 looking at talc and ovarian cancer, I think it's 5 Q. Let's go back to that. We'll finish up 5 still relevant. 6 this Exhibit 11. 6 Q. Have there been a number of updates and 7 What was the next page, if any, the last 7 changes to the classification of tumors since 8 page in your photocopy? 8 1994? 9 A. Okay. So this is Page 1216 of the 9 A. Since 1994, sort of semantically. We 10 fourth edition, if I am correct. Give me one 10 still have the same subtypes of ovarian cancer. 11 second while I find it. 11 There's been a new categorization. We talked 12 Okay. So the reason why Page 1216 is there 12 about the Type 1 and Type 2 ovarian cancers. So not a complete overhaul in 13 is because it starts the section on ovarian 13 14 14 categorization; I think just different ways to cancer, which then continues on to Page 1217. 15 And it says -- the last paragraph on Page 1217 15 category the same entities, let's --16 says, "Other suggested factors affecting ovarian 16 Q. Has the --17 cancer risk include talc exposure, a history of 17 A. -- put it that way. 18 mumps infection, and alcohol consumption. Talc 18 Q. Sorry. 19 exposure, which has been related to an excess 19 Has the understanding of the origin of 20 risk of ovarian cancer in a number of 20 ovarian tumors evolved significantly since 1994? 21 case-control studies, is of interest biologically 21 A. So this mentions -- we talked about 22 in that ovarian cancer is thought to arise from 22 this a little bit earlier -- this does mention 23 the mesothelium that lines the peritoneal 23 that at this time, in 1994, there was thought 24 cavity." 24 that ovarian cancer might arise from the 25 25 MR. ROTMAN: Slow it down so she can mesothelium. So the ovary is covered by a layer

	Page 158		Page 160
1	of mesothelium. That's the outer layer. And so	1	page just because it was a continuation of that.
2	in 1994, that was still, I would say this is	2	So, yes, I think we're done with the fourth
3	before my residency, a little before my time	3	edition.
4	that that was the most common thought, that	4	Sorry. I'm starting to talk fast because
5	that's where the ovarian cancer cancers are	5	I'm excited for lunch.
6	arising from. Now, since then we've discussed	6	MS. AHERN: We can take a break for
7	some of the other more recent findings of the	7	lunch, then.
8	etiology.	8	THE VIDEOGRAPHER: Here ends Media 3.
9	But, anyway, I just I had read this a	9	Off the record, 1:05 p.m.
10	couple of days ago and, you know, it was it	10	(Lunch recess was taken.)
11	was a reference that I think is still relevant	11	("Blaustein's Pathology of the
12	because of the the subsequent case controls	12	Female Genital Tract," Fifth Edition,
13	and meta-analyses that were done since then that	13	marked Exhibit 12.)
14	I think still make it relevant, although, again,	14	(Excerpt of Blaustein's
15	I we're not we're still not absolutely sure	15	Pathology of the Female Genital Tract,"
16	where all of these ovarian epithelial tumors are	16	Fifth Edition marked Exhibit 13.)
17	arising from. But we have a little more evidence	17	THE VIDEOGRAPHER: Here begins Media
18	than we did in 1994.	18	No. 4 in today's deposition of Sarah Kane, M.D.
19	Q. And in 1994, the first prospective	19	Back on the record, 1:45 p.m.
20	cohort study had not yet been published; correct?	20	BY MS. AHERN:
21	A. I believe that is correct.	21	Q. Okay. Hi, Dr. Kane.
22	Q. So we would be these numbers here	22	A. Hello.
23	in that are discussed for talc exposure would	23	Q. I'm looking here at Blaustein's
24	be, essentially, just the retrospective case	24	Pathology of the Female Genital Tract, Fifth
25	controls that had been published up to that point	25	Edition, which you brought with you here today.
	Page 159		Page 161
1		1	Page 161 I marked it as Exhibit 12 to your deposition.
1 2	Page 159 or the specific ones A. Yeah. You have the reference list of	1 2	
	or the specific ones	1	I marked it as Exhibit 12 to your deposition.
2	or the specific ones A. Yeah. You have the reference list of	2	I marked it as Exhibit 12 to your deposition. You can have it back.
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	Page 162		Page 164
1	gynecologic investigation, especially	1	experimental studies or animal studies
2	hysteroscopic I can't say the word,	2	linking talc foreign-body responses to
3	hysterosalpingo anyway, HPG, lubricant jelly,	3	development of cancer?
4	mineral oil and starch and talc powder may cause	4	A. From what I can recall in those
5	a lipoid or granulomatous salpingitis. An	5	textbooks, I don't think they went into any more
6	intense phagocytic reaction to introduce lipid	6	detail than what I've read for you.
7	material causes"	7	Q. Okay. What else did you bring with you
8	THE COURT REPORTER: Excuse me.	8	today? Anything that we haven't covered other
9	A. Sorry. I think that's basically the	9	than the boxes behind me?
10	that is the end.	10	A. Correct. I don't think so. Mr. Rotman
11	No. At the very end of the page, it says,	11	brought a copy of my report, but that is all.
12	"Talc may cause mucosal or serosal granulomas.	12	This let me look.
13	Examination of all granulomas or foreign body	13	All of these have been marked already.
14	reactions under polarized light is useful in the	14	Yeah.
15	recognition of these processes. Other disease	15	Q. All right. Doctor, you've got a copy,
16	processes in the tube such as leprosy or	16	but I'm going to hand you another one. I've
17	amyloidosis are so infrequent that they are of	17	marked as Exhibit 14 a copy of your expert report
18	little clinical or pathologic significance."	18	dated November 15, 2018.
19	Q. How does that information inform your	19	(Rule 26 Expert Report of Sarah
20	opinions today?	20	E. Kane, M.D. marked Exhibit 14.)
21	A. So it's just another again, similar	21	Q. Can you review Exhibit 14 and tell us
22	to the other things that we reviewed in the other	22	if this is indeed your expert report dated
23	edition, just another piece of evidence that talc	23	November 15, 2018?
24	causes mucosal and serosal granulomas, and	24	A. Yes. This appears to be my report.
25	they're talking about the fallopian tube in this	25	Q. And you brought with you earlier an
	Page 163		Page 165
1	chapter.	1	updated copy of your CV; correct?
2	MR. KLATT: Can I interrupt?		
3	MR. KLATT. Call I litterrupt?	2	
			A. Yes, I did.
4	(Discussion off the record.)	2	
		2 3	A. Yes, I did.Q. Which we marked Exhibit 2.
4	(Discussion off the record.) MR. LOCKE: I'm on right now. Thanks,	2 3 4	A. Yes, I did.Q. Which we marked Exhibit 2.(Document entitled "References
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	(Discussion off the record.) MR. LOCKE: I'm on right now. Thanks, Mike. BY MS. AHERN: Q. And, Doctor, did you review any other sections of Exhibit 12, Blaustein, Fifth Edition? A. I believe I did. I think in this edition, from what I recall, that was the the reference was in the fallopian tube. Q. Is that what we just discussed on Page 629? A. Yes. 629 was where talc was discussed in the fallopian tube. Q. Did you see any other information in any of the Blaustein texts that we reviewed today that suggests that foreign body granulomas caused by talc have been associated with the development of ovarian cancer? A. Well, we saw mention of the epidemiologic studies in the fourth edition that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes, I did. Q. Which we marked Exhibit 2. (Document entitled "References Cited and Other Material and Data Considered" marked Exhibit 15.) BY MS. AHERN: Q. And Exhibit B to your report was entitled "References Cited and Other Material and Data Considered." I've marked that as Exhibit 15 to your deposition. A. Okay. Q. Okay. And Exhibit 15 isn't paginated but consists of 11 pages. The first ten pages of materials consist of 186 items identified by the caption on the top of Page 1 as "Literature"; is that correct? A. I'm sorry. Are you talking about the "References Cited and Other Material and Data Considered," Exhibit 15? Q. Yes. A. Yes. There is a list of 186 literature

42 (Pages 162 to 165)

Page 166 Page 168 1 include an additional 17 items; is that correct? that you -- the list that you got yesterday is 2 A. Yes. 2 stuff that I had reviewed, I believe. I have to 3 Q. Okay. So did you prepare Exhibit 15? 3 look at it. 4 A. Yes. I did. 4 But my point is that list that you got 5 Q. Did you type this out yourself? 5 yesterday was varied, and -- when I looked at it, 6 A. I did. Yes. 6 and it was just an effort to be as complete as 7 7 Q. Okay. And how did you go about pulling possible. 8 this together? 8 Q. Okay. And just looking -- we'll get 9 9 there, but just looking at Exhibit 15, which --A. I'm -- in what way? 10 Q. Did you keep a running list of the 10 the first ten pages, which are the references? 11 citations as you went and then pull this all A. Mm-hmm. 11 12 together at the end of your report? 12 Q. So do you define the references as the A. Yes. So what happened is this was my specific sources that you cited within the body 13 13 first medical expert witness report I have 14 14 of your report? written. And you'll notice that -- let's see, 15 15 A. These are sources that I cited within all of the -- oh, I'm sorry. This doesn't the body of my report. 16 16 17 include the January 4th list; right? 17 Q. And are these the sources that you rely 18 Q. We'll get there. 18 on to support the opinions expressed in your 19 A. Okay. So that's what I kind of want to 19 20 explain. What happened is, the reason why you 20 A. So these are some of the references 21 had a January 4th list, is because I wrote 2.1 that I used. Again, I also had reviewed the 22 this -- the accepted form for published subsequent -- the literature and the other data 22 23 literature is listing literature that you've 23 in the subsequent lists. So I would not say this is all-encompassing, but ultimately, with all the 24 actually cited within the body of your report, 24 25 and so it was my misunderstanding. I was not 25 lists you have now, I'm hoping that that is Page 167 Page 169 1 aware at first that you guys were going to want a 1 encompassing of at least all of the stuff that I list of everything that I had reviewed. 2 considered. I wouldn't necessarily say "rely 2 3 So what I tried to do is this, I think, was 3 on," but at least everything that I considered. 4 turned in at the same time, so Exhibit 15 was 4 Q. Okay. And that was -- my next question 5 turned in at the same time as Exhibit 14, and it 5 was: Do you differentiate between the sources 6 6 cited here as references and those that you just has the literature that was cited within the body 7 of the report. 7 considered but weren't included as references? 8 And then when I realized I needed to get a 8 A. Not necessarily. These are the ones 9 list together of everything, as complete a list 9 that ended up getting cited in the report. Now, 10 of everything that I thought I reviewed, I put 10 there were different drafts, which at one point 11 together the January 4th list, which was -- I had 11 some of the other ones were cited, and there was 12 to sort of recreate -- and I kept almost all of 12 a little bit of changing it around, which there's 13 those -- all of this literature in different 13 a couple -- I think there are a couple of 14 14 typographical-type errors in a couple of the files. 15 I had to do a little bit of recreation 15 references because of that. 16 because, as I mentioned before, I lost a couple 16 But essentially, there isn't that much of a 17 of hard drives during this whole process, which 17 difference, I would say, except to say that this 18 was not fun. But thankfully, I was -- I had 18 is the literature that I ended up specifically 19 backed up a lot of it. 19 citing. 20 So I tried to be as complete as possible. 20 But all of the literature that I looked at, 21 It is possible that there are a few things I 21 I considered. 22 reviewed that did not make the list, which I 22 Q. Would you say that all of the 23 think I realized on the list that you got 23 literature that you looked at, which would 24 yesterday there might have been a couple that I 24 include your other sources here on Exhibit 15, 25 had reviewed before, but most of that literature 25 your January 4, 2018, reference list, and the

Page 170 Page 172 1 ones served yesterday, January 24th, would you remember, I did my own literature search, read as 2 say that you relied on all of those materials? 2 much as possible, started taking my own notes. 3 A. No. Well, I at least reviewed those. 3 And then thought, as I was sort of forming my 4 I would say that I considered them. I wouldn't 4 opinion, thought, you know, it would be nice to 5 necessarily say that I relied upon them. 5 know what the defense is saying. And, of course, 6 Q. And when you consider material, what 6 I think at that point is when I asked, but I 7 does that mean to you? 7 don't remember specific timing. 8 A. Well, you know, when I'm -- you can 8 Q. And did you specifically -- did you ask look at my methodology, how I tried to cast as 9 9 for specific defense reports or specific defense wide a net as possible with the information that 10 10 reports related to particular expertise? I gathered in the information stage. So I wanted 11 11 A. If I recall -- I'm looking at this 12 to have as much data, as many literature 12 list -- I believe the first request was a more 13 references, expert reports, whatever I could kind 13 general request. 14 of get my hands on that might be relevant to my 14 Q. When you say "more general," do you 15 general causation report. 15 mean for --And then I'm reading through those, and 16 16 A. Meaning --17 that's actually when I started my draft of the 17 Q. -- for defense? 18 report. It really started as sort of notes that 18 A. - I didn't ask for specific names of 19 I took as I read the different literature 19 people. 20 references, and I sort of built out from there. 20 Q. Ah. 2.1 Does that answer your question? 21 A. I think at this point, I wasn't Q. I think probably so. 22 22 necessarily aware of who would have been defense Did you collect -- did you identify all of 23 23 experts. And so I don't remember exactly, but my 24 the materials in Exhibit 15 yourself, or were 24 inclination is that I had asked for a more 25 some of these provided to you by the plaintiffs' 25 general sort of representation. Page 171 Page 173 1 counsel? 1 Q. And can you identify on here which of 2 2 A. The vast majority of them, I found the other sources are from defense experts? 3 through my own literature search. Some of them 3 A. Yes. I'll try my best. 4 may have been supplied by the plaintiffs' 4 The Michael Ober expert report was provided 5 attorneys. A lot of those overlapped with what I 5 by plaintiffs' counsel. The deposition of Alice 6 had already found; the exception, of course, б Blount was also provided by plaintiffs' counsel. 7 7 being documents on the other sources that I would Both of the Chodosh, his report and his trial 8 not have had access to on my own. 8 testimony, was provided by plaintiffs' counsel. 9 So I had asked for, and in forming my 9 Samuel Cohen was provided by plaintiffs' counsel. 10 10 opinion, my general causation opinion, I had And also -- also, let's see, the Cramer, I 11 asked for defense expert reports so I could get a 11 wouldn't have access to the Cramer reports on the 12 sense of what the defense experts' opinions were, 12 Byrd and Jacqueline Fox. The expert report of 13 just to get, you know, the other -- just to get 13 Michael Crowley was given to me. That, 14 obviously, is a plaintiffs' report that was 14 more information. 15 So that's -- so those were definitely given 15 within a day or two of turning in my report. 16 to me by plaintiffs' attorneys. 16 That was very late in the process. 17 17 Q. Do you remember, timewise, did you John Godleski, I might have asked for by 18 review the defense expert reports and the 18 name. Of course, he's a plaintiffs' expert. 19 materials in the other sources earlier on to get 19 His, I may have asked for by name because of the 20 a sense of the issues in the litigation and then 20 Cramer papers. 21 do your literature search, or the other way 21 Q. Did you say Cramer was a plaintiff or 22 around? What was the timing? 22 defense expert? A. Cramer, I believe, was a plaintiff. 23 A. I don't remember exactly. I don't 23 24 believe I read the -- I'm trying to think timing. 24 Q. I wasn't sure. You named him after the 25 25 I think what I did is -- from what I defense experts. I'm sorry. I'm just going

Page 176 Page 174 1 through the list. ones that I received. Yes. 2 2 MR. ROTMAN: The list is alphabetical, Q. Is there anyone on this list that's --3 3 so she's going down the list. that specifically addresses gynecologic 4 BY MS. AHERN: 4 pathology? 5 Q. Yeah. My question was: Which ones are 5 A. I think it's been a long time since I 6 the defense experts? 6 read those reports, but I do remember some of 7 A. I'm sorry. 7 those reports speaking to -- your question was on 8 Q. If you're done, you're done. Are there 8 top. I'm just making sure. 9 any other defense experts. 9 O. Sure. 10 A. Well, the John Hopkins and Julie Pier, 10 A. Some -- so the gyn onc report 11 those exhibits and depositions I got from 11 definitely went into some gynecologic pathology. 12 plaintiffs' counsel. 12 Gyn oncs are generally knowledgeable about gyn 13 I believe that is it, looking at the list of 13 pathology because we work pretty closely with 14 defense reports. 14 them. We often show our gyn pathology, for 15 Q. Did you want to know what the defense 15 example, at multiconferences, multidisciplinary experts had to say about epidemiology? 16 16 conferences. 17 A. I wanted -- yeah. I wanted as much 17 So I vaguely remember a gyn onc one going 18 evidence as I could get, so --18 over some gyn path stuff, but my memory is vague 19 Q. Were you aware that the defendants had 19 because I have not read these in probably over a 20 designated epidemiologists in the litigation who 20 year. I don't know exactly. 21 had given reports and testimony? 21 Q. Would you be interested in what the 22 A. I don't know if I was aware 2.2 epidemiologists that had served reports and given 23 specifically of that. 23 testimony in the litigation the last five years, 24 Q. Were you aware that the defense had 24 what they've said? 25 designated a number of gynecologic pathologists 25 MR. ROTMAN: Objection. Page 175 Page 177 1 who had given reports and testimony as well? 1 A. Again, I'll take whatever information 2 2 A. Again, I don't know if I was or data, you know, I can get that might be 3 specifically aware of that. No. 3 relevant. 4 Q. Would you have, as a pathologist doing 4 Q. And do you consider expert litigation 5 an expert report on this litigation, would you 5 reports to be data? 6 have been interested to know what the defense 6 A. Yes. I think it's data. 7 pathologists had said? 7 Q. Okay. Is it the kind of data you rely 8 A. Well, I will take any data that I can 8 on in your everyday practice as a pathologist? A. I sort of view they're opinion reports. 9 get to try to see if it's relevant. I mean, so I 9 10 had asked for defense reports, and that's what I 10 They're opinion, general causation opinions, and 11 11 a couple of these are -- I can't remember. All 12 Q. These reports, these other sources, the 12 of these were general, I believe, from the 13 13 17 items here were in response to your request, defense. 14 14 but they were chosen by the plaintiffs' counsel? So they're professional opinion data, and I 15 would say that's similar to having a consultation 15 MR. ROTMAN: Objection. 16 A. I'm not sure how they were chosen or 16 with a colleague or a peer. I mean, you know, in 17 how -- why -- all I know is that I asked for 17 my day-to-day practice, I'm certainly asking 18 reports, and this is what I received. 18 opinions of colleagues and different specialties 19 Q. And you specifically asked for defense 19 or my own specialty, even. Those are 20 reports; right? 20 professional judgments, professional opinions, 21 21 looking at their knowledge of the literature or A. I did. 22 Q. And you got Michael Beer, who is an 22 23 oncologist; Lewis Chodosh, a cancer biologist; 23 So I think it's a good analogy; looking at 24 and Sam Cohen, a toxicologist; correct? 24 general causation, professional opinions, is A. That would appear, from the list, the 25 similar to kind of getting a colleague's opinion. 25

	Page 178		Page 180
1	Q. But this is the first time you've	1	But I don't believe I well, I might
2	relied on litigation reports to inform your own	2	have referenced the Longo.
3	opinions; correct?	3	BY MS. AHERN:
4	A. Well, again, I don't know if I would	4	Q. Page 5. I think if you look at Page 5
5	use the word "rely." I certainly considered	5	of your report, you reference Dr. Blount
6	them, you know. But, again, I think it's very	6	A. Yes.
7	similar to asking a colleague in my daily	7	Q Dr. Crowley, Longo, Rigler,
8	practice for an opinion on something.	8	Hopkins
9	Q. And, Doctor, looking at 186 references	9	A. Yes.
10	that are cited in Exhibit 15.	10	Q Pier?
11	Did you review each one of these carefully	11	A. Yes. Looking back at the list, you're
12	and thoroughly?	12	absolutely correct. I did.
13	A. I reviewed each one of them, some of	13	Q. Do you think, as you sit here, that
14	them probably more thoroughly than others,	14	those are
15	depending on what I was looking for; but yes, I	15	MR. TISI: I can look at them if it
16	reviewed all of them.	16	makes your life easier. I'm happy to do it.
17	Q. And do you know whether or not the	17	But I do think Mike is back there
18	boxes, the four boxes that are sitting behind me,	18	looking. I'm thinking that those are the actual,
19	do those include these 186 references on	19	relied-on referenced materials, not the materials
20	Exhibit 15?	20	considered, which was a separate list.
21	MR. TISI: Let me see if I can help you	21	MS. AHERN: That's the January 4th, and
22	out.	22	we're going to get to that one.
23	MS. AHERN: Sure. Go ahead.	23	MR. TISI: No. it's in the back of the
24	MR. TISI: My understanding is they do.	24	report. Maybe I'm wrong.
25	MS. AHERN: That's the 186?	25	MS. AHERN: There are other sources,
	Page 179		Page 181
1	MR. TISI: That would be the references	1	but she has apparently relied on them
2	in the report. It would not be, to my I	2	MR. TISI: That's fine.
3	haven't cracked the boxes, so I can only assume	3	MS. AHERN: to some extent in
4	from past prologue that the information	4	performing reviews about fragrances and asbestos.
5	considered is not in those boxes. They may be,	5	BY MS. AHERN:
6	but the information relied on that is cited in	6	Q. Is that right, Doctor?
7	the report are.	7	A. Dr. Crowley's report and Dr. Longo's
8	MS. AHERN: Okay. So other sources	8	report, yes. I
9	here that are not cited specifically, well, they	9	Q. And what about Dr. Hopkins and Pier?
10	may be	10	A. Yes. I don't believe I read their
11	MR. TISI: I don't know, for example	11	entire depositions. I know I had seen the
12	well, maybe we can open them up. But I don't	12	exhibits from the depositions, and I think
			and The Arthur at Tour After a Arthur
13	know, for example, if the expert reports and	13	part I listed it here, so I must have at some
13 14	depositions are in the in there. If they're	14	point.
13 14 15	depositions are in the in there. If they're cited, then they're probably in there. If	14 15	point. MS. AHERN: Okay. So let's put 15 over
13 14 15 16	depositions are in the in there. If they're cited, then they're probably in there. If they're not cited	14 15 16	point. MS. AHERN: Okay. So let's put 15 over here, and let's move on to the next one.
13 14 15 16 17	depositions are in the in there. If they're cited, then they're probably in there. If they're not cited THE WITNESS: I'm not sure because	14 15 16 17	point. MS. AHERN: Okay. So let's put 15 over here, and let's move on to the next one. (Document entitled "Additional")
13 14 15 16 17 18	depositions are in the in there. If they're cited, then they're probably in there. If they're not cited THE WITNESS: I'm not sure because I'm not sure I cited these in my report because	14 15 16 17 18	point. MS. AHERN: Okay. So let's put 15 over here, and let's move on to the next one. (Document entitled "Additional Material Considered" marked Exhibit 16.)
13 14 15 16 17 18	depositions are in the in there. If they're cited, then they're probably in there. If they're not cited THE WITNESS: I'm not sure because I'm not sure I cited these in my report because they weren't necessarily reliance. It was more	14 15 16 17 18 19	point. MS. AHERN: Okay. So let's put 15 over here, and let's move on to the next one. (Document entitled "Additional Material Considered" marked Exhibit 16.) BY MS. AHERN:
13 14 15 16 17 18 19 20	depositions are in the in there. If they're cited, then they're probably in there. If they're not cited THE WITNESS: I'm not sure because I'm not sure I cited these in my report because they weren't necessarily reliance. It was more data.	14 15 16 17 18 19 20	point. MS. AHERN: Okay. So let's put 15 over here, and let's move on to the next one. (Document entitled "Additional Material Considered" marked Exhibit 16.) BY MS. AHERN: Q. Okay. Doctor, I'm handing you what's
13 14 15 16 17 18 19 20 21	depositions are in the in there. If they're cited, then they're probably in there. If they're not cited THE WITNESS: I'm not sure because I'm not sure I cited these in my report because they weren't necessarily reliance. It was more data. But I thought at the time that I should	14 15 16 17 18 19 20 21	point. MS. AHERN: Okay. So let's put 15 over here, and let's move on to the next one. (Document entitled "Additional Material Considered" marked Exhibit 16.) BY MS. AHERN: Q. Okay. Doctor, I'm handing you what's been marked as Exhibit 16 to your deposition.
13 14 15 16 17 18 19 20 21	depositions are in the in there. If they're cited, then they're probably in there. If they're not cited THE WITNESS: I'm not sure because I'm not sure I cited these in my report because they weren't necessarily reliance. It was more data. But I thought at the time that I should list what because these aren't publicly I	14 15 16 17 18 19 20 21 22	point. MS. AHERN: Okay. So let's put 15 over here, and let's move on to the next one. (Document entitled "Additional Material Considered" marked Exhibit 16.) BY MS. AHERN: Q. Okay. Doctor, I'm handing you what's been marked as Exhibit 16 to your deposition. Can you take a look at Exhibit 16 and tell
13 14 15 16 17 18 19 20 21 22 23	depositions are in the in there. If they're cited, then they're probably in there. If they're not cited THE WITNESS: I'm not sure because I'm not sure I cited these in my report because they weren't necessarily reliance. It was more data. But I thought at the time that I should list what because these aren't publicly I don't believe any of these are publicly	14 15 16 17 18 19 20 21 22 23	point. MS. AHERN: Okay. So let's put 15 over here, and let's move on to the next one. (Document entitled "Additional Material Considered" marked Exhibit 16.) BY MS. AHERN: Q. Okay. Doctor, I'm handing you what's been marked as Exhibit 16 to your deposition. Can you take a look at Exhibit 16 and tell us what that is?
13 14 15 16 17 18 19 20 21	depositions are in the in there. If they're cited, then they're probably in there. If they're not cited THE WITNESS: I'm not sure because I'm not sure I cited these in my report because they weren't necessarily reliance. It was more data. But I thought at the time that I should list what because these aren't publicly I	14 15 16 17 18 19 20 21 22	point. MS. AHERN: Okay. So let's put 15 over here, and let's move on to the next one. (Document entitled "Additional Material Considered" marked Exhibit 16.) BY MS. AHERN: Q. Okay. Doctor, I'm handing you what's been marked as Exhibit 16 to your deposition. Can you take a look at Exhibit 16 and tell

Page 184 Page 182 1 list of -- as complete a list as I could -- I'm 1 A. No. 2 not going to say this is a complete list -- and, 2 Q. And are there some materials on 3 of course, you have another list that you just 3 Exhibit 16 that were provided to you or 4 got, but I tried to be as complete as I could in 4 identified for you by the plaintiffs other 5 recreating the literature and other reports that 5 than -- and I'm not talking about the litigation 6 I had considered. 6 materials, but the articles? 7 7 A. Again, there might have been some that So these are ones that, to my recollection, 8 I didn't specifically cite or were not 8 overlapped with what I had already found. I'm 9 available -- I mean, obviously, I have some of 9 looking. 10 the plaintiffs' expert reports that weren't 10 I believe the April 2014 FDA letter may --11 available to me until after I had written and although that might have been available on the 11 12 submitted my report. So some of these were 12 internet. I might have come across that on my 13 available to me only after -- and the Health 13 own first. 14 Canada came out after my report. 14 No. I believe the vast majority of this 15 So these are a combination of things I 15 stuff was stuff that I -- other than those reports was stuff that I had independently 16 reviewed subsequent to November 15th and stuff 16 17 17 already found. That's the only one that is that I had reviewed prior to that but had not 18 specifically cited and recreated the list. 18 ringing a bell as a possibility, but I also seem to remember finding it on the internet. 19 Q. Okay. And just for the record, this 19 20 is -- Exhibit 16 is a four-page document. It's 2.0 Q. Okay. And are any of these materials, 21 not paginated, but it has 96 items identified as 2.1 materials that you explicitly rely on or, excuse 22 "Additional Materials Considered," so -- served me, are any of the materials on Exhibit 16 22 23 on January 4, 2018. materials that you rely on to support your 23 24 Can you identify, as you look through these 24 opinions? 25 items on Exhibit 16, which of those you reviewed A. Again, it's all data that I considered. 25 Page 183 Page 185 1 prior to the submission of your report and which 1 I didn't specifically cite them, but there's ones you reviewed after? 2 2 certainly pieces of information that helped me 3 A. I can do the best that I can. My 3 come to my conclusion. 4 memory might be a little -- and I have to jog my 4 Q. And you prepared Exhibit 16, didn't 5 memory a little bit on some of them. 5 you? 6 Clearly, the expert reports that were 6 7 dated -- the plaintiff expert reports that were 7 Q. And do you remember when you prepared 8 dated after my report, I had not seen --8 9 Q. Mm-hmm. 9 A. Very shortly before you received it. 10 A. -- prior. 10 So it would have been -- you received it 11 And, again, the Health Canada came out 11 January 4th? 12 afterwards, so that was not available when I 12 Q. Mm-hmm. submitted my report. The majority of the rest of 13 A. I think I -- it was only -- I don't 13 14 remember exactly, but it wasn't very long before 14 the literature, I had read prior to submitting my 15 that that I put it all together, after 15 16 Q. Okay. Had you seen any draft reports 16 recreating -- trying to recreate as best I could 17 from any of the other experts designated by the 17 the list of literature that I had reviewed. 18 plaintiffs in this litigation? 18 Q. And did you carefully and completely 19 A. Not before my report. I didn't see any 19 review all of the information in Exhibit 16? 20 drafts. I only saw the final reports after my 20 A. Again, I reviewed all of it. Some of 21 report was submitted. 21 it was more relevant than others, likely, so --22 Q. Okay. Did you have an opportunity to 22 but I reviewed all of them. 23 talk with any of the other experts that were 23 Q. Okay. Obviously, anything that you 24 designated by plaintiffs prior to your report 24 received after your report is information you being submitted? 25 would not have relied on to form your opinions in 25

Page 186 Page 188 1 this case: correct? 1 I think that covers most of them. 2 2 A. No. It's more information for my -- my Q. What about the EFSA guidance on the use 3 3 opinion hasn't changed since I wrote my report. of weight of evidence? 4 In fact, I know we've talked about Health Canada 4 A. Oh, yeah. That, I think, I reviewed 5 a little bit, but that was pretty interesting to 5 after I had submitted my report. 6 see that report because their methodology was б Q. Did that form part of the basis of your 7 very similar to mine, and they did a Bradford 7 opinions or your methodology? 8 Hill analysis, and they looked at a lot of the 8 A. It was more of a -- it basically shows 9 same literature and came to the same conclusion. 9 that the methodology that I used is very similar 10 So that definitely was supportive evidence, 10 to evidence-based medicine that we would use on a 11 I think -- not I think; it is -- of my opinion. 11 daily basis. It kind of went through weight of 12 Q. And, Doctor, I only have one copy of 12 evidence, and it was sort of helpful to see the 13 this. It's "Additional Materials to Sarah Kane" 13 similarity of the methodology that I used coming 14 that were served last night or yesterday 14 to my conclusion. 15 afternoon, January 24th. 15 Q. Was the methodology you used for 16 (Document entitled "Additional 16 preparing your opinions in this case and your 17 Materials to Dr. Sarah Kane" marked Exhibit 17 report in this case taken directly from the EFSA 18 17.) 18 guidance? 19 BY MS. AHERN: A. No. I think I just -- I saw this EFSA 19 20 Q. First of all, can you take a look at 20 guidance after writing my report. 21 21 Q. Did you use any other sort of published 22 Have you seen it before? 2.2 methodology on weight of the evidence when you 23 A. Yes. Yes. I have. 23 prepared your opinions? 24 Q. Did you prepare that? 24 A. I used what we have been trained to 25 A. I did. I had listed -- there are a 25 use. I mean, it's evidence. It's an Page 187 Page 189 1 couple of papers that I realize I had read 1 evidence-based medicine model of methodology and 2 2 previously and didn't -- I can tell you Purdie, coming to conclusions. So it's -- I tried to do 3 1995, Keskin, 2009, I definitely reviewed while 3 as thorough as possible description of my 4 preparing my report, and somehow those got off 4 methodology, which we can refer to in my report 5 5 the list. if you'd like. 6 The other ones, Taher wasn't available. I'm 6 Q. What about the J&J Science Day 7 7 trying to remember Gordon, if I had seen that. presentation? 8 If I had seen that before I submitted a report, 8 A. That --9 it was very late. It might have been after. 9 MR. ROTMAN: Objection. Is there a 10 The IARC heavy metals, I believe I actually 10 question? 11 cited that in my reference list, but I was trying 11 MS. AHERN: I'm about to get there if 12 to be -- it was one of these last-minute, trying 12 you'd let me finish my question. 13 13 MR. ROTMAN: I thought you were. to be as complete as possible, so that actually 14 Sorry. 14 might be a repeat. 15 The website, I had reviewed prior to turning 15 MS. AHERN: You might just hold off. 16 in my report. And the Longo supplemental report, 16 BY MS. AHERN: 17 obviously, wasn't available until January. Same 17 Q. What about the J&J Science Day 18 with the depositions. Those weren't available 18 presentation? Is that something that you 19 until after they were done. 19 20 The Kurman defense report, I asked for 20 A. I reviewed that very quickly, and I 21 21 only received that maybe a week ago. It was very recently when I realized that Kurman was a 22 listed -- a named expert witness, which is also 22 recently. 23 why I went through my copies of my old textbooks 23 Q. Did you request that information? 24 and my partner's old textbooks. So that, I asked 24 A. I think, from what I remember, it was 25 for specifically. 25 part of asking for more sort of defense side of

2.2

Page 190

the story; what, you know, your experts might have been saying; what kind of -- you know, I was trying to figure out how somebody who had looked at the same body of evidence that I did can come to a different conclusion, so it was part of sort

of that request.

I think I probably got it after I requested Kurman's defense report from a prior litigation, if memory serves me correctly.

Q. You would agree that a very large part, not just volume, but a very large part of your report and your opinions in this case are related to the observational epidemiology on talc and ovarian cancer; is that correct?

A. Well, I think that epidemiology literature is extremely compelling. You have 30 case-control studies over different periods of time in different populations that have come to the same — same ballpark relative risk, I would say, 1.3 to 1.4.

Now, not all of those have been statistically significant, but some of those studies were smaller studies, and so that tends to decrease the power of the study and your confidence intervals will be wider.

Page 192

is such a rare disease, and you're sort of, you know, rolling the dice when you enroll patients as to whether or not they're going to end up with a disease at the end that you want to study.

So you're sort of -- and these cohorts are also designed for multiple endpoints and multiple diseases. They weren't just looking, most of them -- I believe the sister -- well, the sister study -- anyway, we can pull it out if I have to, but my point is the cohort studies are designed for multiple different things, especially the Nurses' Health Study.

And so it's a difficult type of study to design with a very rare disease. And I think that's where the case-control studies are important because you can start with the disease and work backwards, and so you can have an easier time getting cases.

Q. Did you find it interesting or odd that you were provided with a number of defense expert reports, but not a single one of them related to the epidemiology specifically from an epidemiologist?

A. Well, you know, again, I don't pretend to know why I was sent what I was sent. I just

Page 191

But I thought the epi data was really compelling. And often in causation, the epi data sort of leads the way in paving a path to figuring out causation.

A perfect example is tobacco. You know, the Surgeon General issued his report in the 1960s about tobacco before they had any mechanism for tobacco causing -- so that was a perfect example of the epi data leading to causation.

So it's true, a lot of the studies looking at talcum powder products and ovarian cancer are epidemiology studies, but they're extremely informative in that they are very consistent in their findings. And, again, different authors, different populations, different countries.

And there's also the cohort. So I went through the cohort studies. The cohort studies, some of them showed an association with serous invasive carcinoma, but the cohort studies didn't tend to find, other than that, a statistically significant increased risk, although some of them did find increased risk.

But we can talk about cohort studies versus case-control studies if you want, but I think the difficulty with cohort studies is ovarian cancer

Page 193

know that I asked for reports, and I got what I got. So I have no idea what the process was in deciding what I received; if there was even a decision. For all I know, it's just what they had readily available.

Sorry. What is the question?

Q. Well, let me ask another question.

MR. ROTMAN: Let her finish the answer because you can read -- she can go back and read from the realtime what the question was and see if she's done.

A. So I guess I don't know if there was thinking -- what the thinking was or if there was any. But also I can say that the epi data -- I knew that by that point that the epi data was consistent by the time I -- I think that was the first literature that I was looking at, and so I knew that it was consistent.

So it's -- anyway, I don't really -- I don't know is the answer, the short answer.

The long answer, the short answer is I don't know why I got what I did. I just did.

Q. Okay. And you've seen the designations in this case from November of 2017 in which you were listed formally and publicly as an expert

	Page 194		Page 190
1	for the MDL? Have you seen that document?	1	MR. TISI: That's fine.
2	A. I'm not sure that I have, actually.	2	MS. AHERN: Absolutely.
3	Q. Were you aware that in November of	3	I have the date as November 6, 2017.
4	2017, you were listed on a court document as an	4	MR. TISI: You are exactly well, it
5	expert for the plaintiffs in the MDL litigation?		
6		5	is what it is.
7	MR. ROTMAN: Objection.	6	MS. AHERN: Okay. Either way.
	A. I don't know the timing or I don't	7	BY MS. AHERN:
8	think I saw the document, so I	8	Q. Okay. Doctor, if you turn to if you
9	("The Plaintiffs' Steering	9	turn to Page 8, the bottom of Page 8, do you see
10	Committee's Initial Designation and	10	your name?
11	Disclosure of Non-case Specific Expert	11	A. Yes.
12	Witnesses" marked Exhibit 18.)	12	Q. Okay. And did you go ahead and
13	BY MS. AHERN:	13	review the text here associated with your name
14	Q. Okay. I'm marking Exhibit 18 to your	14	and designation.
15	deposition. Do you see this document,	15	(Witness complies.)
16	Exhibit 18, is entitled "Plaintiff Steering	16	Q. Just let me know when you're finished.
17	Committee's Initial Designation and Disclosure of	17	A. I'm finished reading my blurb. I'm
18	Non-case Specific Expert Witnesses"?	18	just looking
19	A. Okay.	19	Q. Sure.
20	Q. And if you turn to first of all,	20	A. Okay.
21	let's see. Unfortunately, I can't find the date	21	Q. Were you aware in November of 2017 that
22	on that, and I apologize.	22	
23	MR. TISI: It's January, if I'm not		you had been publicly disclosed as an expert on
24	mistaken. I think it was mid-January of 2017.	23	behalf of plaintiffs in the MDL?
25	MS. AHERN: Is that what it is?	24	MR. TISI: Okay. That's and you do
		25	kind of need to know the context in which this
	Page 195	25	kind of need to know the context in which this Page 19'
1	Page 195 MR. TISI: Yeah. And, Counsel, since I	25	
1 2			Page 19' was done.
	MR. TISI: Yeah. And, Counsel, since I was involved in this process, if you don't mind	1	Page 19' was done. MS. AHERN: I'm just asking if she was
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. TISI: Yeah. And, Counsel, since I was involved in this process, if you don't mind if I place an objection here. MS. AHERN: Sure. MR. TISI: As you may not know, during the status conference where this was ordered I don't have the transcript in front of me it was intended to be an interim I don't know what the questions are going to be, but it was intended to be an interim disclosure to help guide the legal process for identifying issues that would be involved in Judge Wolfson looking at the science. It was never I don't know again, not knowing what your questions are, I don't even think it would be intended to be used as an expert as an exhibit in a deposition. But, you know, whatever your questions are, we would like to reserve that because MS. AHERN: Sure. MR. TISI: this was intended to be a more of an informative document than	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	was done. MS. AHERN: I'm just asking if she was aware she was publicly she was already retained at that point. MR. TISI: She was retained, but there was no the judge was very clear when she ordered that this be done. She understood that this was not a disclosure of experts. So when you ask the question "You understand you were being identified as an expert at that time," she would have no way of knowing that because we didn't know it. MR. KLATT: Chris, you've got to limit your objection. MR. TISI: No. But it's unfair because MR. KLATT: You're coaching the witness. You're telling her the whole story. MR. TISI: It's a true story. Why don't we ask her to leave, and we'll put it on the record. I have no problem with that. MR. KLATT: All right.

Page 200 Page 198 MR. TISI: She was probably not, I 1 MR. ROTMAN: Go get a cookie. 2 MS. AHERN: Sorry, doctor. 2 mean, what she was aware of when she had been 3 3 (Witness exited) retained. 4 MS. AHERN: My questions on this are 4 MS. AHERN: Did she agree to be 5 fairly limited to the time period that she was 5 disclosed as an expert? 6 retained, time period she was intending to be an 6 MR. TISI: She agreed to be retained. 7 7 expert, that sort of thing --She was disclosed as an expert when she reached 8 8 MR. TISI: Yeah. her conclusions in the case. 9 MS. AHERN: -- and the subject matter 9 And so what the Court was requiring us 10 10 that she is being designated for. to do was to give us a broad brush, and she was 11 MR. TISI: Yeah. But, you see, the 11 very clear. I remember standing in court, and 12 issue in the case -- and the reason why this was 12 she said, "Look, some of these may fall off your 13 a tricky issue for the judge and -- well, I won't 13 list. Some of these may -- we may have people 14 speak for the judge, but for us when we disclosed 14 that might be added, but I want a snapshot in this was because we didn't know -- we didn't have 15 time as to what I'm dealing with in terms of" --15 expert reports. We didn't even have opinions 16 MR. KLATT: We don't need to waste time 16 17 17 yet. on the record on this. 18 18 So this was being done in a way that MR. TISI: We can go off the record if 19 said, "Okay, Judge, she wants to know, A, are 19 you want. I just don't want to be -- use this as 20 there new and different witnesses that were going 20 an unfair -- you know, none of your questions 21 to be designated that were different than what 21 have been unfair up until now. 22 was designated in the state court?" 22 But to take this document and to 23 MS. AHERN: I do recall this, yes. 23 suggest in some fashion -- and I don't know what 24 MR. TISI: The second issue, she was 24 you're going to do with it. Maybe we just need 25 very clear that she understood that there was a 25 to wait and see. Page 199 Page 201 1 lot of discovery that needed to be done, 1 But I think this is -- I don't think 2 2 documents to be reviewed, science that was going anyone ever intended that this document would be 3 3 to come out. So she was pretty clear that this used as an exhibit in a deposition of one of 4 was more informative than anything else. 4 these witnesses. I don't think the court 5 5 And so when you ask her a question intended that to be the case, just like she --6 6 about -- when you ask her questions, "You know when she ordered the Tardek report --7 7 when this document was disclosed when you were informational only. MR. KLATT: Are we off the record? 8 identified as an expert," you know, it implies 8 9 that she had agreed to be -- you know, what her 9 We're just going on here. Let's go off the 10 opinions actually were at that time. 10 record. 11 She -- I can tell you that these 11 MR. TISI: Yeah. 12 reports were done over a period of time. So it's 12 THE VIDEOGRAPHER: Off the record. 13 misleading, and it really is an unfair thing to 13 2:38 p.m. 14 do to a witness because this was a court request 14 (A recess was taken.) 15 having nothing to do with her opinions or her 15 THE VIDEOGRAPHER: Back on the record, 2:42 p.m. 16 expert report. 16 17 MS. AHERN: Okay. 17 (Witness returns) 18 MR. TISI: Do you understand where I'm 18 BY MS. AHERN: 19 coming from? 19 Q. Okay. Doctor, I've just shown you a 20 MS. AHERN: I understand where you're 20 copy of some early designations that were 21 21 submitted in the talc MDL, and you saw your name coming from. 22 Here is my question to you: Did Dr. --22 listed as one of the people who was being 23 was Dr. Kane not aware that you were going to 23 considered as an expert; correct? 24 designate her or that you had at least publicly 24 A. My name is in this document. Yes. 25 disclosed her to the Court? 25 Q. Okay. Is there any -- do you have any

Page 202 Page 204 1 issues with the description of the testimony that asked me if I would be willing to do an extensive 2 you were going to offer to give? 2 review of the literature and decide what my 3 A. I believe that to be accurate. 3 opinion would be on talcum powder products 4 4 Q. Okay. And you had been working on your causing ovarian cancer. 5 report at this point since May of 2017; correct? 5 Q. Did you ask them or discuss with them 6 A. I started in May. "Writing the report" 6 what your role would be in terms of your specific 7 7 is a very loose description. What I was -- what area of expertise in anatomic pathology? 8 8 I started, as I mentioned before, was I started A. I did not specifically talk to them 9 9 about that because I know that I'm a gynecologic to review literature. I sort of took notes. So 10 10 pathologist, so I thought that would be my area I sort of counted that as writing. So I started 11 11 where I weigh in on my opinion. that process in May. 12 12 Q. Okay. And the only thing I was going Q. And where in your report specifically 13 to ask you about in this report is, as you look 13 do you address your expertise in gynecologic 14 through it, do you note that there are a number 14 pathology, anatomic pathology? 15 of professional epidemiologists that have been 15 A. I list it in the beginning of my 16 listed in this report on behalf of plaintiffs? 16 report, I think. I talk about -- I talk about my 17 A. I'd have to go through the list. I 17 background. 18 18 actually, even though I did have access to Is that what you mean? 19 several final reports, after I had submitted my 19 Q. I mean more in terms of the opinions 20 20 report, I don't remember who was what specialty, that you're giving being informed by your 21 what field, for the majority of them. 21 expertise in anatomic pathology. 22 Q. Well, how about this question: Of the 22 A. Well, again, I'm an expert in 23 experts -- are you aware of which experts have 23 gynecologic pathology, and the question is about 24 submitted reports on behalf of the plaintiffs? 24 a causation of ovarian cancer, so certainly that 25 A. I would need to look at the list that I 25 falls into my area of expertise. Page 203 Page 205 1 reviewed, which I think is all of the ones that 1 Q. And do you specifically address in 2 2 were submitted, and compare it to this list. terms of anatomic pathology or ovarian cancer 3 I mean, I know Jack Siemiatycki is an 3 pathogenesis the question of talc and ovarian 4 epidemiologist, off the top of my head. 4 cancer? 5 Dr. Singh, I believe, is an epidemiologist. 5 A. I think that goes to the plausibility, 6 But without going through the list and sort 6 the mechanisms, as part of it. 7 of jogging my memory as to the reports, I skimmed 7 Q. And which particular mechanisms are 8 a lot of these reports. 8 informed by the discipline of anatomic pathology 9 Q. Okay. And I guess the point is: Are 9 and gynecologic pathology? 10 10 you aware, as we sit here today, that the A. Well, I think pathologists, anatomical 11 plaintiffs have designated a number of 11 and clinical pathologists, have training in 12 epidemiologists in this MDL litigation who have 12 inflammation and immunology and certainly 13 13 given reports and/or testimony at this point on epidemiology, looking at epidemiologic studies. 14 14 I think all of it is within the realm of the topic of epidemiology, talc and ovarian 15 15 gynecologic pathology. 16 A. I am aware that they have 16 Q. Did you discuss anywhere specifically 17 epidemiologists that have submitted reports for 17 in your report the biology of foreign body 18 18 reactions and granulomas as a part of the 19 Q. Okay. And specifically, if you can 19 biologic plausibility for exposure? 20 think back to your initial contact with 20 A. Let me refer to my report. I 21 plaintiffs' counsel when you were asked to get 21 definitely talk about inflammation. I can do a 22 involved in the litigation, what specifically 22 word search for granulomas, if you would like. 23 were you asked to do, or what was your 23 Q. Do you talk about inflammation --24 understanding of what your role would be? 24 MR. ROTMAN: Would you like --25 A. Yeah. My understanding was they had 25 Q. -- in the context of anatomic

	Page 206		Page 208
1	pathology?	1	any other portions of your report that directly
2	MR. ROTMAN: Would you like to do that?	2	address ovarian cancer pathogenesis from a
3	Because I can get your report up electronically.	3	pathology standpoint," and
4	MS. AHERN: I know where she's	4	A. So my answer is I did the work, but I
5	mentioned granulomas. I already know. I'm just	5	can't discuss it because of attorney work product
6	asking her if she knows.	6	issues.
7	MR. ROTMAN: So she wants to find it	7	Q. Okay.
8	quickly.	8	MR. ROTMAN: You can she can you
9	MS. AHERN: You can give her your	9	can ask her questions about it.
10	computer and let her search.	10	MS. AHERN: Sure.
11	MR. ROTMAN: Okay. That's what I was	11	MR. ROTMAN: But she's as to what is
12	asking.	12	in the report or not in the report, that's the
13	BY MS. AHERN:	13	work product piece.
14	Q. Do you cite any publications describing	14	MS. AHERN: That's kind of all the
15	the biology of granulomas?	15	questions.
16	A. I know some of the literature talks	16	MR. ROTMAN: Ask her about the science.
17	about granulomatous inflammation, discusses	17	MS. AHERN: I'll ask, and you can
18	granulomatous inflammation.	18	object.
19	MR. ROTMAN: If you want to search, do	19	MR. KLATT: Find out what is in or is
20	you know how to do it on this computer? Edit,	20	not in the report.
21	Find, then you can type in a word that you want	21	MS. AHERN: Let's pick up the
22	to search.	22	foundation here.
23	MR. KLATT: Is there a question?	23	BY MS. AHERN:
24	A. So I mention it in the animal studies,	24	Q. Doctor, first of all, you said you did
25	injecting talc into the pleural spaces causes	25	the work relating to ovarian cancer pathogenesis
	Page 207		Page 209
1		1	
1 2	Page 207 granulomatous response. It looks like those are the two.	1 2	Page 209 from a pathology standpoint; correct? A. Yes.
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Page 212 Page 210 1 MS. AHERN: Well, she's already said 1 let me rephrase it. 2 2 there was a section on ovarian cancer As a gynecologic pathologist who was asked 3 3 pathogenesis from a pathology standpoint in the to opine on ovarian cancer and talc, did you 4 report, and it was removed; correct? 4 assume that part of your opinions would be to 5 MR. TISI: That's not what she 5 incorporate your expertise in anatomic pathology 6 testified. 6 and gynecologic pathology? 7 MS. AHERN: Read back. 7 MR. ROTMAN: Wait. Wait. Wait. Wait. 8 MR. TISI: Why don't we read what she 8 Wait. 9 said because she said the answer is: 9 MS. AHERN: I'm only concerned if she 10 "ANSWER: I did the work, but I can't 10 understands the question. 11 discuss it because of attorney work product." 11 BY MS. AHERN: 12 MS. AHERN: Okay. Okay. 12 Q. Do you understand the question? 13 MR. TISI: She never said it was in the 13 MR. ROTMAN: No. You have to let me 14 14 see if I understand the question to see if I'm 15 MS. AHERN: Thank you. 15 going to object to it before she's allowed to 16 MR. TISI: Line 48. 16 answer. 17 BY MS. AHERN: 17 MS. AHERN: Why don't you make an 18 Q. When you say you "did the work," did 18 objection, and we'll move on. 19 you take any notes on any reading that you did on 19 MR. TISI: Because he may instruct her 20 ovarian cancer pathogenesis? 20 not to answer the question. 21 A. So in writing this report, I generally 21 MS. AHERN: This is not -- this is not 22 did not take any notes, handwritten notes. It 2.2 a question that should invade your privilege. 23 was sort of a living document that I used. 23 MR. TISI: It involves the discussion 24 Q. Now, earlier, you referred several 24 between counsel and in the drafting of the 25 times to taking notes as you were going through 25 reports, what would be in, what would be out, Page 211 Page 213 1 literature. 1 what she thought, what she didn't think. You're 2 2 Are all those notes something that became -not entitled to any of that. 3 on a single document that ultimately became a 3 MR. ROTMAN: So if you can find the 4 4 question, read the question, and I will object to 5 A. It was one document that went through 5 the question, but you can answer it. 6 numerous, numerous editing on my part and, of 6 A. Okay. So you want me to reread the 7 course, suggestions from attorneys at different 7 question? 8 points. 8 MR. ROTMAN: To yourself. 9 Q. Now, as an anatomic pathologist and as 9 So my question was -- do you see that? 10 10 the only pathologist that has been designated by THE WITNESS: Yeah. 11 the plaintiffs in this MDL, did you think that it 11 A. Well. I feel as if I did that in my 12 was important to opine on the pathogenesis of 12 final report. I certainly -- the -- my opinions ovarian cancer from an anatomic pathology 13 that are in my final report are certainly within 13 14 the realm of gynecologic pathology. 14 standpoint? MR. ROTMAN: Objection. For what 15 Q. And can you specifically point to the 15 16 16 opinions and the discussions in your report that purpose? 17 MS. AHERN: I'm asking her. 17 are within your personal expertise in gynecologic 18 Q. Can you answer the question? 18 pathology? 19 A. First of all, I wasn't aware I was the 19 A. So, again, review of epidemiology is 20 only pathologist because I didn't have a list of 20 something that physicians do on a regular basis. 21 their named experts. 21 We're trained to look at epi data. We're trained 22 I did work on -- I'm not sure how much I can 22 to practice evidence-based medicine, which has a 23 really talk about the whole draft process. 23 very similar, if not identical, methodology. 24 MR. ROTMAN: You can't --24 So -- and we certainly are trained in 25 25 Q. So my question was: As an anatomic -inflammation, the immune system, talc and

Page 214 Page 216 1 tissue -- I have a section on talc and tissue --1 Q. You do a full systematic review of the 2 the epi data. 2 literature, as that term is defined 3 Not -- I don't think any of this report is 3 epidemiologically? 4 outside of my -- I know that none of this is 4 A. We certainly do when we're doing 5 5 outside of my expertise as a gynecologic research, when we're writing papers, but we still 6 do literature searches when we're assigning out pathologist. 6 7 7 cases that are relevant to individual patients. Q. Okay. Doctor, were you retained as an 8 8 expert epidemiologist in this case? Q. When was the last time you conducted a 9 A. I was retained as a gynecologic 9 full systematic review of the literature and a 10 10 Bradford Hill analysis to opine on causation? pathologist. 11 O. And you are not an epidemiologist; 11 A. So, again, this is not something that's 12 12 completely foreign to me. The legal aspect of it correct? 13 13 A. I'm not a epidemiologist, but we is new to me, but this methodology is not new to 14 certainly review epidemiology and critique 14 15 epidemiology studies on a regular basis in our 15 The last time -- I mean, there was a tobacco 16 16 case that I worked on, but in my daily practice, daily practice. 17 Q. When people ask you what you do for a 17 again, I'm still looking at epidemiology living, you don't tell them you're an 18 literature all the time. 18 epidemiologist, do you? 19 19 Q. Well, there is a difference, Doctor, 20 A. I often have to explain what a 20 wouldn't you agree, between looking at the 21 pathologist is, so I spend half the time just 21 epidemiology to inform yourself about a 22 trying to describe what a pathologist is, so... 22 particular issue and doing a systematic review of 23 MR. KLATT: Objection. Nonresponsive. 23 the literature and a full Bradford Hill analysis 24 MS. AHERN: Yeah. 24 to opine on causation? Is there a difference? 25 25 MR. ROTMAN: She's not done answering A. Well, this was a deep dive, so I'll say Page 215 Page 217 1 your question. She's in the middle of an answer. 1 I was aware of the literature on talcum powder 2 2 A. So my point is I'm unlikely to describe and ovarian cancer before I became involved in 3 3 myself as an epidemiologist when I'm trying to this litigation. 4 describe what a pathologist does, but that's the 4 I will say, you know, it wasn't until they 5 5 big picture. asked me to form my opinion on this that I did a 6 But the real picture is, on a daily basis, 6 deep dive on the literature again on this 7 7 we are evaluating epidemiologic data in the particular issue. 8 literature. 8 Again, I've certainly done extensive 9 BY MS. AHERN: 9 literature reviews before to, you know -- in 10 Q. When was the last time you did a 10 research and in practice. 11 systematic review of the literature for the 11 Q. But nothing like this? 12 purpose of opining on causation? 12 A. It's very similar. A. So we review literature --13 13 MR. ROTMAN: Objection. A. The methodology is very similar to 14 Q. You. I'm just talking about you. 14 15 A. Hold on one second. Let me just review 15 this. It's identical. 16 the question. I'm way behind here on my --16 Q. Doctor, can you point me to -- take a 17 Well, I do literature searches all the time 17 look at Exhibit 2, your CV. 18 and looking -- when I'm looking at cases to 18 Can you point me to something in your CV 19 figure out causation. 19 that demonstrates some specialized knowledge or 20 I've been involved in one other legal case, 20 expertise in epidemiology? A course, a class 21 but it is -- this was the first medical-legal 21 you've taught? A paper that you've published? A 22 general causation report. 22 case-control study you've been involved in? 23 But, again, this is all the same methodology 23 Anything that would indicate that you have 24 that we use in evidence-based medicine and our 24 specialized expertise in epidemiology? 25 25 A. It's part of our medical training as practice.

	Page 218		Page 220
1	part of evidence-based medicine.	1	So that was sort of more the review on that.
2	I'm trying to find my CV. I'm not sure I	2	Q. Who is S.M. Rollins?
3	have it in front of me. Maybe it's under here.	3	A. That's my ex-husband.
4	Well, you're sitting in I mean, all of these	4	Q. What is his specialty?
5	involved epidemiology research.	5	A. He's a microbiologist.
6	MR. ROTMAN: All of what?	6	Q. What about Ryan?
7	A. I'm sorry. All of these research	7	A. He is an infectious disease physician.
8	projects start with the pathology publications	8	Q. Okay. What portion of "Yersinia pestis
9	start with looking at the literature of	9	and the plague" did you draft or did you
10	epidemiology.	10	contribute?
11	Q. Which ones are you pointing to	11	A. I drafted the entire I was the lead
12	sorry. Let's look at the peer-reviewed	12	author, and I the primary author, and I
13	publications.	13	drafted that report.
14	Is that what you're talking about?	14	Q. Okay. So if we go in there, we're
15	A. Yes. Sorry.	15	going to find you used statistical methods or
16	Q. So the first publication is Narasimhan,	16	analysis in any way to weigh the evidence and
17	"Temperature Induced Interstrand Crosslinks in	17	conduct a systematic review?
18	Cisplatin-DNA Adducts Detected by Electrophoresis	18	A. It's definitely a review article. Off
19	and UV Spectrophotometer."	19	the top of my head, I don't know if I did a
20	That's not an epi study, is it?	20	statistical analysis, but
21	A. Some of these were biology. The one	21	Q. Would you describe it as more of a
22	that comes to mind when I'm looking at this list	22	narrative review of the literature?
23	is the "Yersinia pestis and the plague." That	23	A. A review of the literature. I don't
24	was a review article. That was around that	24	know about the word "narrative," but review.
25	was after the 2001 mailings of the pattern	25	Q. What about the Grundy paper,
	Page 219		Page 221
1	substance. And so the literature was very	1	"Specificity of tRNA-mRNA Interactions in
2	interested in Yersinia pestis at the time, and so	2	Bacillus substilis tyrS Antitermination"?
3	I did a review article on that.	3	Is that an epi study?
4	 Q. Was that a systematic review and a 	4	A. No.
5	Bradford Hill analysis?	5	Q. What about the Rollins paper,
6	A. The Bradford Hill analysis is part of		
		6	"Diagnostic yield of muscle biopsy in patients
7	evidence-based medicine when you're coming to a	6 7	"Diagnostic yield of muscle biopsy in patients with clinical evidence of mitochondrial
7 8	evidence-based medicine when you're coming to a conclusion. So		"Diagnostic yield of muscle biopsy in patients with clinical evidence of mitochondrial cytopathy"?
8 9	evidence-based medicine when you're coming to a conclusion. So Q. This isn't a case-control study or a	7 8 9	"Diagnostic yield of muscle biopsy in patients with clinical evidence of mitochondrial cytopathy"? Is that an epidemiologic article?
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8 9 10 11	evidence-based medicine when you're coming to a conclusion. So Q. This isn't a case-control study or a prospective cohort study MR. ROTMAN: You're not allowing her to	7 8 9 10 11	"Diagnostic yield of muscle biopsy in patients with clinical evidence of mitochondrial cytopathy"? Is that an epidemiologic article? A. No. That's not an epidemiology article, but we
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	Page 222	Page 224
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Was that a systematic review of the literature, or an epidemiologic study? A. There's definitely review of literature as part of that study because the question arises with autoimplants, sometimes they're misdiagnosed as invasive serous. So there is definitely literature review for that study. Q. This would be described as you have it in the title, this is a clinicopathologic study? A. Correct. Q. So you were looking at this as a pathologist; correct? A. Well, I'm looking at I mean, some of these were before I was the first couple are before I was an M.D., but all of the subsequent ones I'm looking at as a pathologist. Q. What about the Chan study, "Clinicopathologic Correlation of Fetal Vessel Thrombosis in Mono- and Dichorionic Twin Placentas"? Is that an epidemiologic study? A. That's a clinicopathologic correlation. Q. And then the publication with Jonathan Hecht, "Endometrial Interepithelial Neoplasia,"	are degreed epidemiologists who have been designated on behalf of plaintiffs to look at these issues; correct? A. I'm aware of that now. I didn't know who their list was before I submitted my report. Q. You've never published as we just looked through here an epidemiologic study, a case-control study, or a cohort study? A. I have not published; but, again, that doesn't I mean, it doesn't mean I haven't done them. It's just that Q. Have you done them? A. They haven't been published. Well, again, literature reviews of epidemiology is part of our regular practice. Q. I'm asking about, like, actual study designs. Have you conducted a case-control or a cohort study? A. Not of an epi Q. Okay. A specific design. Q. Have you ever taught an epidemiology course? A. No.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	is that an epidemiology study? A. That was a review of a new terminology in endometrial precursor lesions. So that was a pathologic an anatomic pathology article. Q. And then you have the one with Haspel, which is "Successful Implementation of a Longitudinal, Integrated Pathology Curriculum During the Third Year of Medical School"? A. That was a medical-education-type article. Q. Okay. And do you have any proceedings of meetings, poster presentations, that were from a case-control or a cohort study that you conducted? A. Let me look. I don't believe these poster presentations were case well, I mean, case-control or cohort epi-type studies. Q. Okay. And, Doctor, to be fair, you don't have a degree in epidemiology; correct? A. I do not have a degree. But, again, it's epidemiology is a very big part of evidence-based medicine and what we practice as M.D.s. MR. KLATT: Objection. Nonresponsive. Q. And, Doctor, you understand that there	Q. Do you have any grant funding to conduct epidemiologic observational studies? A. No. Q. Have you ever given any lectures or presentations specifically on epidemiology methodologies? A. That's possible. I'm trying to think. It's been a long time. Medical school through residency, fellowship, not that I can think of off the top of my head. Q. Okay. And have you ever designed a clinical trial? A. I have not designed a clinical trial. Q. Have you designed a case-control study? A. I have not designed a cohort study? A. I have not designed a cohort study? A. I have not designed a cohort study; but, again, these are — we can critically evaluate. Just because I haven't designed one doesn't mean I can't critically evaluate case-control studies or cohort studies. Q. Doctor, you haven't conducted a meta-analysis or a pooled analysis to evaluate potential risk factors for any disease, have you?

Page 226 Page 228 1 A. No, I haven't. asbestos in it, that would certainly add to the 2 Q. Are you qualified to conduct a 2 plausibility of causation. 3 meta-analysis or a pooled analysis? 3 Q. If there was not asbestos in talcum 4 A. I'm -- I'm sure I could develop one. 4 powder products and there was not fragrance in 5 Q. As we sit here today, are you qualified 5 talcum powder products and you were just left 6 to conduct a meta-analysis or a pooled analysis? 6 with the pharmaceutical-grade tale, what would 7 A. If it was sort of a joint venture, I'm 7 your biologic plausibility argument be? 8 sure; but, again, that doesn't mean that I can't 8 MR. ROTMAN: Objection. 9 critically evaluate them, because that's what I 9 Q. In other words, what is your mechanism 10 do on a daily basis. 10 by which pharmaceutical-grade talc would cause 11 O. Have you authored any paper or 11 ovarian cancer? 12 conducted a study -- well, have you authored any 12 MR. ROTMAN: Objection. Are you asking 13 paper on the methods of causal interpretation? 13 about causation or about biological plausibility? 14 A. Have I authored a paper on the methods MS. AHERN: I'm asking --14 15 of causal interpretation? 15 MR. ROTMAN: You mixed them. I don't believe I've authored. It would be 16 16 MS. AHERN: -- about her mechanism. 17 on my list. 17 BY MS. AHERN: 18 Q. Okay. Doctor, I should have asked you 18 Q. What is your mechanism by which this when it was in front of you: Do you have a 19 pharmaceutical-grade talc would cause ovarian 19 copy of that one-page additional materials? 20 20 cancer? 21 A. Probably. Let's see. 21 A. So there are -- again, most of the 22 Q. Thank you. Maybe I have. Maybe I have 22 studies are dealing with talc powder products. 23 it too. 23 If we were to say that all that was in there is 24 A. Exhibit 17? 24 pharmaceutical -- it's completely hypothetical 25 Q. Yes. Yes. 25 because I don't know what's in there -- I still Page 227 Page 229 1 You received a copy of the Longo 1 think the mechanisms would be similar where, you 2 supplemental report; correct? 2 know, there's evidence that talc can cause 3 3 A. I did. Yes. inflammation, and we know that inflammation is a 4 Q. And it's, what, 404 pages? 4 cause of cancer. 5 A. That's possible. I don't think I 5 And so I -- and there's also, you know, 6 6 Dr. Cramer talked about anti-MUC-1 antibodies, so looked. 7 7 Q. That was my next question: Did you there's an immune -- plausible immune mechanism, 8 review it? 8 so I think all of those are still on the table 9 A. I did review it. I did skim a lot of 9 and the hypothetical situation that it's only 10 it because, again, it was additional information 10 pharmaceutical-grade talc in that bottle. 11 that was nice to have, but it was after my 11 But, again, I -- I'm not opining about what 12 12 is in the bottle; I'm just opining about that -report. 13 13 And, again, my general causation opinion is whatever that product is in that bottle causing 14 not dependent on asbestos being in the product. 14 ovarian cancer. 15 My general causation opinion is based on whatever 15 Q. Okay. Let's take a look at your expert 16 is in the bottle. So it was interesting 16 report again, Exhibit 14, if you will. 17 information to have. 17 Just let me know when you've got it. 18 Q. So your opinions here, it doesn't 18 A. Yeah. 19 matter for your opinions whether or not there's 19 Q. Okay. Doctor, does Exhibit 14, your 20 asbestos in talcum powder products; is that your 20 November 15, 2018, expert report, contain all of 21 21 the opinions that you intend to offer as a 22 A. What I'm saying is my opinion is based 22 witness in this matter? 23 on whatever is in the talcum powder product's 23 A. I wouldn't box myself in that way. 24 bottle. Now, it's up to the jury to decide if 24 There might be questions that I'm asked here 25 there's asbestos in it. However, if there is 25 today or in trial that aren't necessarily in my

	Page 230		Page 232
1	report.	1	probably have within them all the references to
2	Q. Okay. But the opinions that you intend	2	your report. Other than those and what you
3	to offer, absent somebody asking you to offer	3	brought with you today, is there anything else
4	other opinions, are all outlined or contained	4	related to your work on your report that you have
5	within Exhibit 14, your report; is that correct?	5	in your possession that you haven't been able to
6	A. Again, I wouldn't want to say "all." I	6	bring with you today?
7	wouldn't want to limit myself. There's always	7	A. Not that I'm aware of. I've tried to
8	the possibility that something else will come up,	8	be very complete in my list of what I reviewed.
9	and I even have a thing that additional	9	It's possible again, it's possible there are a
10	information may come up.	10	couple of things that might have been left off,
11	Q. Okay. As we sit here today, do you	11	but I tried to be as complete as possible.
12	understand that this is our opportunity to ask	12	Q. Okay. And you mentioned earlier you
13	you about the opinions in your report, and we	13	had done some work on the pathogenesis of ovarian
14	have the day to do it?	14	cancer.
15	Do you understand that?	15	Did you have any articles or publications
16	A. I understand.	16	that are related to that work that are not
17	Q. Okay. So to the extent that you think	17	referenced in your report?
18	you're going to offer additional opinions or	18	A. I believe they should be in the list.
19	different opinions, we need to know that today.	19	They should be included in the list that you
20	I understand that if something comes up two	20	have.
21	weeks from now and it's additional information,	21	Q. The one from your initial report?
22	you might supplement your report.	22	A. Taken all together. Taken all
23	But as of today, as we sit here today, is	23	together. So that, probably, is more the
24	this report an accurate reflection of the	24	January 4th one would probably be some of those.
25	opinions that you have formed and that you intend	25	And then I can't remember what's on that one
			The dien realitionion what on that one
	Page 231		Page 233
1	to offer in this case?	1	that you just got, but if there's a couple on
2	A. I would say it's an accurate reflection		.1
3		2	there.
	of the opinions I have formed with the exception	3	But I would think if they weren't cited in
4	of the opinions I have formed with the exception of anything that might be asked that is not in	l	
	-	3	But I would think if they weren't cited in
4	of anything that might be asked that is not in	3 4	But I would think if they weren't cited in the report, the majority of those should be in
4 5	of anything that might be asked that is not in the report; but yes.	3 4 5	But I would think if they weren't cited in the report, the majority of those should be in the January 4th list.
4 5 6	of anything that might be asked that is not in the report; but yes. Q. All right. All right.	3 4 5 6	But I would think if they weren't cited in the report, the majority of those should be in the January 4th list. Q. Okay. And those would pertain to the
4 5 6 7	of anything that might be asked that is not in the report; but yes. Q. All right. All right. And as we sit here today, is your report complete? A. Well, it's signed and turned in, so	3 4 5 6 7	But I would think if they weren't cited in the report, the majority of those should be in the January 4th list. Q. Okay. And those would pertain to the various histologic categorizations of ovarian
4 5 6 7 8	of anything that might be asked that is not in the report; but yes. Q. All right. All right. And as we sit here today, is your report complete? A. Well, it's signed and turned in, so Q. Do you, as the expert designated in	3 4 5 6 7 8	But I would think if they weren't cited in the report, the majority of those should be in the January 4th list. Q. Okay. And those would pertain to the various histologic categorizations of ovarian cancer; what is known about etiology. Is that kind of the gist of the information that you researched?
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4 5 6 7 8 9 10 11	of anything that might be asked that is not in the report; but yes. Q. All right. All right. And as we sit here today, is your report complete? A. Well, it's signed and turned in, so Q. Do you, as the expert designated in this case, Sarah Kane, do you consider your report to be complete as we sit here today?	3 4 5 6 7 8 9 10 11	But I would think if they weren't cited in the report, the majority of those should be in the January 4th list. Q. Okay. And those would pertain to the various histologic categorizations of ovarian cancer; what is known about etiology. Is that kind of the gist of the information that you researched? A. Yes. Yes. That was certainly part of it.
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	of anything that might be asked that is not in the report; but yes. Q. All right. All right. And as we sit here today, is your report complete? A. Well, it's signed and turned in, so Q. Do you, as the expert designated in this case, Sarah Kane, do you consider your report to be complete as we sit here today? A. Yes. MR. ROTMAN: Off the record. (Discussion off the record.) THE VIDEOGRAPHER: Off the record, 3:24 p.m. (A recess was taken.) THE VIDEOGRAPHER: Here begins Media No. 5 in today's deposition of Sarah Kane, M.D. Back on the record, 3:39 p.m.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	But I would think if they weren't cited in the report, the majority of those should be in the January 4th list. Q. Okay. And those would pertain to the various histologic categorizations of ovarian cancer; what is known about etiology. Is that kind of the gist of the information that you researched? A. Yes. Yes. That was certainly part of it. Q. And were there other parts to that? THE WITNESS: Is that I don't know if MR. ROTMAN: Yeah. You can say what work you did. A. There was so a good bit of it was sort of background information on the pathologic diagnosis of ovarian cancer and different, as you said, different subtypes.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	of anything that might be asked that is not in the report; but yes. Q. All right. All right. And as we sit here today, is your report complete? A. Well, it's signed and turned in, so Q. Do you, as the expert designated in this case, Sarah Kane, do you consider your report to be complete as we sit here today? A. Yes. MR. ROTMAN: Off the record. (Discussion off the record.) THE VIDEOGRAPHER: Off the record, 3:24 p.m. (A recess was taken.) THE VIDEOGRAPHER: Here begins Media No. 5 in today's deposition of Sarah Kane, M.D. Back on the record, 3:39 p.m. BY MS. AHERN:	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	But I would think if they weren't cited in the report, the majority of those should be in the January 4th list. Q. Okay. And those would pertain to the various histologic categorizations of ovarian cancer; what is known about etiology. Is that kind of the gist of the information that you researched? A. Yes. Yes. That was certainly part of it. Q. And were there other parts to that? THE WITNESS: Is that I don't know if MR. ROTMAN: Yeah. You can say what work you did. A. There was so a good bit of it was sort of background information on the pathologic diagnosis of ovarian cancer and different, as you said, different subtypes. There was I'm trying to remember it
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	of anything that might be asked that is not in the report; but yes. Q. All right. All right. And as we sit here today, is your report complete? A. Well, it's signed and turned in, so Q. Do you, as the expert designated in this case, Sarah Kane, do you consider your report to be complete as we sit here today? A. Yes. MR. ROTMAN: Off the record. (Discussion off the record.) THE VIDEOGRAPHER: Off the record, 3:24 p.m. (A recess was taken.) THE VIDEOGRAPHER: Here begins Media No. 5 in today's deposition of Sarah Kane, M.D. Back on the record, 3:39 p.m. BY MS. AHERN: Q. Okay. Dr. Kane, we were talking about	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	But I would think if they weren't cited in the report, the majority of those should be in the January 4th list. Q. Okay. And those would pertain to the various histologic categorizations of ovarian cancer; what is known about etiology. Is that kind of the gist of the information that you researched? A. Yes. Yes. That was certainly part of it. Q. And were there other parts to that? THE WITNESS: Is that I don't know if MR. ROTMAN: Yeah. You can say what work you did. A. There was so a good bit of it was sort of background information on the pathologic diagnosis of ovarian cancer and different, as you said, different subtypes. There was I'm trying to remember it was so long ago what some of the I believe
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	of anything that might be asked that is not in the report; but yes. Q. All right. All right. And as we sit here today, is your report complete? A. Well, it's signed and turned in, so Q. Do you, as the expert designated in this case, Sarah Kane, do you consider your report to be complete as we sit here today? A. Yes. MR. ROTMAN: Off the record. (Discussion off the record.) THE VIDEOGRAPHER: Off the record, 3:24 p.m. (A recess was taken.) THE VIDEOGRAPHER: Here begins Media No. 5 in today's deposition of Sarah Kane, M.D. Back on the record, 3:39 p.m. BY MS. AHERN:	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	But I would think if they weren't cited in the report, the majority of those should be in the January 4th list. Q. Okay. And those would pertain to the various histologic categorizations of ovarian cancer; what is known about etiology. Is that kind of the gist of the information that you researched? A. Yes. Yes. That was certainly part of it. Q. And were there other parts to that? THE WITNESS: Is that I don't know if MR. ROTMAN: Yeah. You can say what work you did. A. There was so a good bit of it was sort of background information on the pathologic diagnosis of ovarian cancer and different, as you said, different subtypes. There was I'm trying to remember it

	Page 234		Page 236
1	BY MS. AHERN:	1	Exhibit 14, your expert report, are they solely
2	Q. And would that have been just related	2	the product of your own work?
3	to ovarian cancer pathogenesis?	3	A. Yes. I wrote the report. Certainly,
4	A. Yes. Yes.	4	again, there were drafts that went back and
5	Q. And you think that all of the	5	forth. There may have been suggestions from
6	publications that you found, identified, reviewed	6	attorneys where language was that I accepted
7	in relation to that work are identified in one of	7	into my report; but yes.
8	the lists or across several lists?	8	Q. Okay. You didn't borrow language from
9	A. I'm hoping that across all of the	9	other experts or from other publications and then
10	lists, that encompasses the vast majority, if not	10	not quote that in your report?
11	all. But let's just keep it at vast majority.	11	A. I certainly tried not to. No. I
12	And, of course, you know, I'm a gynecologic	12	certainly cited anything that I I tried to
13	pathologist, so I read tons of other stuff that,	13	cite everything that I referenced
14	you know, is just my background knowledge that	14	Q. Okay.
15	I'm not going to put on these lists. So I can't	15	A to the best of my ability.
16	say it's all-inclusive; but, again, I tried.	16	You know, again, I was taking the notes as I
17	Q. Understood. Understood.	17	wrote, so it's plausible there might be
18	And you've now seen at least one report from	18	something, but I was very cognizant of trying not
19	Dr. Robert Kurman; correct?	19	to trying to cite everything that I was
20	A. That's correct. That was an individual	20	referencing.
21	causation report, though. So	21	Q. And in reaching your opinions, was it
22	Q. And he had a very large background	22	important to you that you review the data in a
23	section on ovarian cancer pathogenesis; correct?	23	fair and objective way?
24	A. To be honest with you, I sort of	24	A. Yes. I think it's always important to
25	skimmed it, but I do remember seeing a section on	25	review data in a fair and objective way.
	Page 235		Page 237
1		1	
1 2	that. Yes.	1 2	Q. I know. It's kind of a basic question.
2	that. Yes. Q. Okay. Did you skim the section that	2	Q. I know. It's kind of a basic question. When you were doing your literature reviews
2	that. Yes. Q. Okay. Did you skim the section that was case-specific?	2	Q. I know. It's kind of a basic question. When you were doing your literature reviews and searches, were you looking both for papers or
2 3 4	that. Yes. Q. Okay. Did you skim the section that was case-specific? A. No. Mostly the background since I	2 3 4	Q. I know. It's kind of a basic question. When you were doing your literature reviews and searches, were you looking both for papers or data that supported talc and ovarian cancer
2 3 4 5	that. Yes. Q. Okay. Did you skim the section that was case-specific? A. No. Mostly the background since I already know that stuff.	2	Q. I know. It's kind of a basic question. When you were doing your literature reviews and searches, were you looking both for papers or data that supported talc and ovarian cancer connection as well as for data and literature
2 3 4 5 6	that. Yes. Q. Okay. Did you skim the section that was case-specific? A. No. Mostly the background since I already know that stuff. Q. Okay. And is the stuff that was in his	2 3 4 5	Q. I know. It's kind of a basic question. When you were doing your literature reviews and searches, were you looking both for papers or data that supported talc and ovarian cancer connection as well as for data and literature that did not or that well, that did not
2 3 4 5	that. Yes. Q. Okay. Did you skim the section that was case-specific? A. No. Mostly the background since I already know that stuff. Q. Okay. And is the stuff that was in his background section similar to the research that	2 3 4 5 6	Q. I know. It's kind of a basic question. When you were doing your literature reviews and searches, were you looking both for papers or data that supported talc and ovarian cancer connection as well as for data and literature that did not or that well, that did not support?
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Page 240 Page 238 1 A. Yes. I know we talked about the Nurses' Health Study. 2 Q. Okay. And you mentioned on Page 4 of 2 That's funny, though, I actually did talk --3 3 I saw Jonathan last night, so it's kind of funny your report that your interest in talc and ovarian cancer began during your training, your 4 4 timing. But anyway... 5 fellowship training, at Mass General; is that 5 Q. Have you talked to Dr. Hecht since 6 6 then, since you first discussed with him the right? 7 7 A. I became aware of it. I mean, both Nurses' Health Study? 8 8 Dr. Scully and Dr. Bell were still there at my Have you spoken with him on talc and ovarian time of training, and Dr. Scully was a coauthor 9 9 cancer? on Cramer's first 1982 paper. 10 10 A. Yes. I saw him last night. We went And then Dr. Bell was a coauthor in one of 11 11 out for a drink. 12 the subsequent -- I think his 1992 paper with 12 Q. Did he give you any opinions on what he 13 Harlow. 13 thought about talc and ovarian cancer? 14 14 So I was certainly aware of literature on A. He told me that he had met with defense 15 talcum powder and ovarian cancer. 15 counsel at one point; did not want to do medical Q. And neither one of them published 16 16 expert witness work but did a brief sort of 17 anything else on talc; is that correct? 17 intro, I guess, overview for the defense. 18 18 A. I believe those were the only two that Q. Did he tell you what his personal or 19 they were on. That's correct. 19 his professional opinion was on whether or not 20 20 Q. And did you understand that the role talc causes ovarian cancer? 2.1 that Dr. Scully played on Dr. Cramer's first 21 A. Yes. He thought that -- so I'll say in publication was simply that of pathologist and 22 my report, I did not spend a lot of time on 22 determining or confirming the diagnosis of the 23 migration because in the gynecologic world, it's 23 24 samples that were being studied? 24 widely accepted that migration happens. He told 25 A. I was aware that he did a pathologic 25 me that he specifically told the defense counsel Page 239 Page 241 1 review of the case. 1 he met with not to use migration because it's 2 2 Q. Okay. Did you ever have an opportunity widely accepted that it occurs. 3 to talk to Dr. Scully about talc and ovarian 3 We did talk about the Nurses' Health paper. 4 cancer? 4 He said that the data set was very small, it was 5 A. I believe my conversations were -- my 5 very difficult with classification, and that 6 memory is -- this is 20 years ago now -- it's 6 that -- there just really wasn't a lot of data in 7 possible, but probably with Dr. Bell, more. I 7 that 2010 study. 8 interacted more with Dr. Bell than Dr. Scully. 8 And he thinks that it is plausible for 9 Dr. Scully was semiretired at the time. He 9 talcum powder to cause ovarian cancer. 10 10 would come in for half the day, but that was Q. Have you spoken to any other 11 usually when I was with other attendings. But I 11 pathologist or colleagues about talc and ovarian 12 did spend a significant time with Dr. Bell, and I 12 cancer? 13 do remember being aware of that literature. 13 A. I have talked to my coworkers about it Now, if you're going to ask me the specific 14 14 because -- as a conflict-of-interest notification 15 conversation, I probably can't prompt that at the 15 for our group and for our hospital, Partners 16 moment. 16 Healthcare, and I discussed my findings with my 17 I was also, when I was at Beth Israel 17 18 Deaconess, my colleague Jonathan Hecht is there. 18 And I've also talked about it at 19 And I was aware he was doing work on the Nurses' 19 multidisciplinary conferences; recently at, for 20 Health Study. 20 example, at a thoracic conference. There were 21 21 gyn oncs there and radiologists and rad onc We didn't -- I can't remember if we really 22 talked about talc at that point because the Gates 22 people there. 23 2010 paper that he was doing, talc was a very 23 Q. And you talked to them specifically 24 small -- it was almost, like, a side comment in 24 about talc and ovarian cancer? 25 25 that report. But I think we had talked about --A. So I told them about my work on it and

Page 242 Page 244 1 the research that I had done, and I was asking Dr. Scully retired; is that right? 2 2 A. Yes. He inherited his consult service. them -- it was a thoracic conference, so I was 3 3 So it's a separate service from our regular curious if any of them had asked any of their 4 clinical work. So it's pathologists from all 4 mesothelioma patients that didn't have 5 over the country or even world that have 5 nonasbestos exposure if they've ever asked them 6 difficult cases, they will send as a specific 6 if they'd had talc exposure. 7 private consult to -- it was Dr. Scully, and now 7 And they said no, they hadn't really done 8 8 it, they hadn't thought about it, but maybe it 9 Q. Okay. When you were first contacted by 9 was something that they should be asking. 10 the plaintiffs' counsel back in 2017, what were 10 Q. And, by the way, what were the 11 your opinions regarding tale and ovarian cancer 11 circumstances under which you and Dr. Hecht had 12 at that point? 12 dinner the other night? 13 A. First contacted? When I was first 13 A. His birthday is coming up. We're still 14 contacted, I was aware of the literature, 14 friends, so it was one of these -- I actually 15 certainly. I hadn't come to a strong opinion one 15 stayed in a hotel last night because it took me 16 way or the other. In fact, I'd probably say I 16 an hour and a half to drive from Topsfield 17 was aware that the epi data had been relatively 17 yesterday morning, and I didn't want to be 18 consistent. That was kind of all I knew about it 18 worried about traffic. So I decided to stay in a 19 until I did my sort of deep dive into the 19 hotel last night. His birthday is coming up, so 20 literature for my general causation opinion. 20 I said, "Let's just grab a drink." 21 Q. So as a pathologist, you never had a 21 Q. You mentioned while you were at Mass 22 particular interest in pursuing additional General, the fellowship director for your program 22 23 research in the area --23 was Robert Young; correct? 24 MR. ROTMAN: Objection. 24 A. Yes. 25 Q. -- of talc and ovarian cancer? 25 Q. Is he someone that you look up to as a Page 243 Page 245 1 pathologist? 1 A. Well, there's certainly a lot of things 2 2 to study in gynecologic pathology. And so I A. Yes. He's very well-respected. 3 Q. By the way, who do you send second 3 hadn't decided to take that -- to do that study 4 opinion consults to when you have a difficult 4 at the time that I was contacted by counsel. 5 case? 5 That's not to say I never would have or I never 6 A. We have a relationship with Mass 6 would have thought about it, but I hadn't at the 7 General, so I'll occasionally send -- if I need 7 time. 8 another set of eyes on, I'll send it to either --8 Q. Okay. In your report on Page 4, you 9 it's sort of their gyn pathology group in 9 say that you've maintained a professional 10 10 general, so it might be Dr. Young. It might be interest -- "since your fellowship, you've 11 Esther Oliva. Those are the two that I would say 11 maintained a professional interest and have 12 most frequently would receive any consults from 12 continued to monitor developments in the science 13 our group for gyn path. 13 regarding talcum powder exposure and ovarian 14 Q. Have you ever spoken with Dr. Young 14 cancer, and it has been the subject of 15 about talc and ovarian cancer? 15 professional discussions predating the 16 A. It's possible. I haven't recently. He 16 litigation." 17 and I aren't in regular communication, so I 17 So what sort of professional discussions 18 certainly wouldn't have talked to him -- I don't 18 about talc and ovarian cancer did you have before 19 know if I've talked to him since starting this. 19 the plaintiffs retained you? 20 It's more of a professional-type 20 A. So, again, I was aware of the 21 relationship, so I don't know if it would have 21 literature. And I knew -- I saw some of the 22 come up recently. But it's possible in training, 22 newer epi data come out. I had had conversations 23 but I don't remember specifically. 23 with Dr. Bell that I remember specifically; 24 Q. And Robin Young inherited all of 24 again, with Jonathan. I knew he was working on 25 Dr. Scully's case files in his office when 25 that Nurses' Health. We certainly talked about

	Page 246		Page 248
1	that study at some point.	1	in the report.
2	But, you know, I was certainly aware of the	2	Q. Okay. And the first opinion is that
3	literature as it came out.	3	talc can migrate to the ovaries through the
4	Q. And you call it a "professional	4	genital tract through the lymphatic system and
5	interest."	5	through inhalation.
6	Did you take other than just reviewing	6	Is that an accurate summary of your first
7	the literature, did you do anything	7	opinion or set of opinions?
8	professionally to either advance your knowledge	8	(reading from document)
9	or other people's knowledge about this potential	9	A. Yes. The talcum powder products can
10	association?	10	reach the ovaries; that they can be transported through the lymphatic system; and there is
11	A. Not I mean, not at the time. I	12	evidence that it can be inhaled as well with
12	think "professional interest" in my mind, you	13	transport to the ovaries.
13	know, means being aware of what's going on in the	14	Q. And the second opinion in the case or
14	literature. Again, that doesn't necessarily mean	15	second set of opinions is that talc causes
15	an in-depth review of everything but being	16	chronic inflammation in the ovaries, causes
16	generally aware of it.	17	increased oxidative stress in the ovaries, and
17	Q. Would you say that since you first	18	causes immunosuppression.
18	learned about this in your fellowship and were	19	Is that an accurate summary of your
19	interested in the topic, did it influence the way	20	mechanism?
20	you looked at gynecologic cases as a professional	21	A. Well, if you're going to read it word
21	pathologist?	22	for word, it's "Once reaching the ovaries, talcum
22	A. Yeah. It's not really routine practice	23	powder products can cause chronic inflammation,
23	to use polarized light microscopy in gynecologic	24	can increase oxidative stress, and can reduce
24 25	pathology. It's just we use it more commonly	25	immune response. These are biologically
45	for breast cases, so		
	Page 247		Page 249
1		1	Page 249 plausible and likely mechanisms for ovarian
1 2	Page 247 And also, you know, even if we found birefringent particles and granulomas or in	1 2	plausible and likely mechanisms for ovarian cancer development and progression."
	And also, you know, even if we found		plausible and likely mechanisms for ovarian cancer development and progression." Q. Okay. When you say "reduce the immune
2	And also, you know, even if we found birefringent particles and granulomas or in the tissue, it wouldn't necessarily mean that they're talc unless you do subsequent studies.	2	plausible and likely mechanisms for ovarian cancer development and progression." Q. Okay. When you say "reduce the immune response," is that essentially discussing, like,
2 3 4 5	And also, you know, even if we found birefringent particles and granulomas or in the tissue, it wouldn't necessarily mean that they're talc unless you do subsequent studies. So I wouldn't say it changed my daily	2 3 4 5	plausible and likely mechanisms for ovarian cancer development and progression." Q. Okay. When you say "reduce the immune response," is that essentially discussing, like, an immunosuppressive effect?
2 3 4 5 6	And also, you know, even if we found birefringent particles and granulomas or in the tissue, it wouldn't necessarily mean that they're talc unless you do subsequent studies. So I wouldn't say it changed my daily practice in diagnosing tumors.	2 3 4 5 6	plausible and likely mechanisms for ovarian cancer development and progression." Q. Okay. When you say "reduce the immune response," is that essentially discussing, like, an immunosuppressive effect? A. That's referencing the MUC-1 antibody
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	Page 250		Page 252
1	a plausibility opinion that's based on a bunch of	1	reaching the ovaries.
2	other potential or plausible mechanisms?	2	So and, again, it's widely accepted in
3	MR. ROTMAN: Objection.	3	the gynecologic community that migration occurs.
4	A. Right.	4	In fact, endometriosis, we really the evidence
5	MR. ROTMAN: I just objected, but you	5	is that endometriosis is caused by retrograde
6	can answer. If you can understand the question,	6	menstruation of endometrium.
7	you can answer it.	7	So there's a substantial amount of evidence
8	A. Well, I think I think they're all	8	and widely accepted that migration occurs.
9	somewhat interrelated.	9	And I'm aware of studies that didn't find
10	I think there's the chronic inflammation.	10	migration, but I think, you know, those few
11	There's the immune response. Those are plausible	11	negative studies don't cancel out the positive
12	mechanisms for ovarian cancer.	12	studies.
13	And the Bradford Hill guidelines, you don't	13	And, you know, certainly, looking for
14	have to prove prove mechanism in order to have	14	migrated particles is very difficult. You know,
15	causation. We have plenty of again, plenty of	15	again, we're talking about dose. How much do you
16	examples of that in prior diseases, like smoking	16	inject to get there?
17	and lung cancer. And even certain drugs, they	17	And so I think the positive studies are
18	don't know the mechanism of action, very common	18	compelling, and it's widely accepted that
19	drugs like lithium, for example, or metformin.	19	migration occurs.
20	So you don't need to prove mechanism in	20	(Article entitled "Presence of
21	order for it to be an important part of a	21	Talc in Pelvic Lymph Nodes of a Woman with
22	causation because it's part of the plausibility	22	Ovarian Cancer and Long-Term Genital
23	component.	23	Exposure to Cosmetic Talc" marked Exhibit
24	Q. Do any of the bases on which you any	24	19.)
25	of the bases that you use to support plausibility	25	
	Page 251		Page 253
1		1	Page 253 BY MS. AHERN:
1 2	Page 251 for talc and ovarian cancer, do any of them have to be proven or established?	1 2	BY MS. AHERN:
	for talc and ovarian cancer, do any of them have to be proven or established?		BY MS. AHERN: Q. Doctor, I'm handing you what's been
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Page 254 Page 256 1 after -- at some point, I was aware that 1 A. I'm sorry. Where are you now? 2 Dr. Cramer and Dr. Godleski was. I don't believe 2 Q. Same sentence. He just finishes it 3 I was aware of that at the beginning of my 3 with "Many subsequent studies found --4 4 A. Okay. research, but I became aware of that. Yes. 5 Q. - "talc use to increase the risk for Q. Okay. Are you aware that Dr. Welch has 5 6 been designated in maybe three cases and given 6 ovarian cancer." 7 7 But he just cites himself again from 1982; testimony in those cases? 8 8 A. Again, I was not aware that Bill Welch correct? 9 9 had been retained. A. Sorry? 10 10 Q. The only cite he provides for that Q. Are you aware that Dr. Welch has run 11 the pathology portion of Dr. Cramer's study statement is his own study from 1982? 11 A. Oh, the one -- the No. 1? 12 program for 40 years? 12 13 A. I'm aware who Dr. Welch is, and I've 13 Q. Mm-hmm. A. Yes. That's his 1999, it says. 1999. 14 certainly seen his name on papers. But now 14 Q. Okay. Sorry about that. You're right. his -- his role in these studies specifically, I 15 15 And then he says, "However, the causality of 16 don't know if I can speak to other than he's 16 17 17 the relationship has been challenged for several involved. 18 reasons." Q. He's testified that his only role was 18 Do you see that? 19 in identifying the types of tumors involved in 19 the study to keep people honest. 20 20 A. I do. 21 Are you aware that Dr. Welch has repeatedly 21 Q. And he says, "First, the association is 22 refused to give -- refused to give a causation 22 a relatively weak one; i.e., summary relative 23 opinion like you're giving today? 23 risk of approximately 1.3." Do you agree that a summary relative risk of 24 A. I'm not aware of Dr. Welch's opinions. 24 25 25 1.3 is a weak association? I didn't know that he was an expert, so I Page 255 Page 257 A. I've seen "weak" or "moderate" used to 1 wouldn't have reviewed any of that testimony. 1 2 2 describe a 1.3, but that doesn't mean it's not a Q. Okay. You weren't provided with any of 3 3 his testimony or his reports in the litigation? significant one, especially in a rare disease 4 4 A. No. I was not aware that he was a like ovarian cancer. 5 5 medical expert witness. MS. AHERN: Objection to the 6 Q. Okay. Do you see under the 6 nonresponsive portion. 7 7 "Background" section here, it says, "Although Q. But I agree it's been described as 8 epidemiologic studies suggest talc may increase 8 "weak," at least here by Dr. Cramer? 9 ovarian cancer risk, there is no proof that talc 9 A. That's -- the sentence says, "First, 10 used externally reaches the pelvis"? 10 the association is a relatively weak one; i.e., 11 A. That's what it says. 11 summary relative risk of approximately 1.3." 12 Q. Are then if you look down in the -- I'm 12 Q. And he says, "Second, there's no clear 13 sorry. I'm sorry. 13 increase in risk with duration of use." Do you agree with that, as of 2007, there 14 If you look down in the first paragraph, he 14 15 mentions, "An epidemiologic association between 15 was no clear dose-response in the studies that 16 the use of cosmetic talc and genital hygiene and 16 looked at talc and ovarian cancer? 17 ovarian cancer was first described in 1982." 17 A. I think there was evidence of a 18 That's Cramer citing Cramer; isn't it? 18 dose-response by 2007. 19 A. Let's see. Let me double-check. I'm 19 Q. So do you disagree with Dr. Cramer's 20 assuming because it's 1982. But let me 20 statement in the 2007 publication that as of that 21 double-check. Or -- yeah. It's 1999. He's 21 time, there was no clear increase in risk with 22 referencing his 1999 paper. 22 duration of use in most studies? 23 Q. And he says, "And the many subsequent 23 A. I wouldn't necessarily phrase it that 24 studies found talc use to increase the risk for 24 way: There's no clear increased risk. I think, 25 25 again, there isn't a lot of data, but what data ovarian cancer."

65 (Pages 254 to 257)

	Page 258		Page 260
1	there was I believe at that time, I'm trying	1	2.4.
2	to think if I was in 2007 would be evidence	2	And for greater than 10,000, we're looking
3	that there was a dose-response.	3	at 1.0 to 3.0.
4	Q. And which papers, prior to 2007, did	4	Q. And when they just adjusted when
5	they find dose-response that was clear?	5	they excluded when they looked at lifetime
6	A. I would have to look back.	6	talc applications and ovarian cancer after
7	Okay. So I tried to do this in chronologic	7	excluding use following hysterectomy or tubal
8	order.	8	ligation, they found no evidence of an
9	Q. What page are you on?	9	exposure-response relationship, didn't they?
10	A. I'm looking at 16.	10	A. Are you looking at the actual paper?
11	Q. Page 16 of Exhibit 14?	11	Q. Do you need it?
12	A. Yes.	12	A. If you're asking me questions about it.
13	Q. Okay. Were	13	Q. Yeah. That wasn't in your report or
14	A. I'm just trying to refresh my memory.	14	is it?
15	So Harlow's let's see 1992 study was,	15	MR. ROTMAN: What is the "it" referring
16	it looks like, the first one that I have listed	16	to?
17	that had a dose-response evaluated for	17 18	Q. That particular finding is not in her
18	dose-response.	19	report on dose-response from Harlow in 1992?
19	They both let's see. The confidence	20	 A. Well, yeah. Let me look at the MS. AHERN: Sure.
20	intervals all included the null. Life so	21	(Article entitled "Perineal
21	what I wrote here this is Page 18 "lifetime	22	Exposure to Talc and Ovarian Cancer Risk"
22	application ORs when compared to control women	23	marked Exhibit 20.)
23	with no perineal talc exposure were 1.3, 4 less	24	MS. AHERN: I'll mark as Exhibit 20 to
24	than 1,000, with a confidence interval of 0.7 to	25	your deposition "Perineal Exposure to Talc and
25	2.7; 1.5 for 1,000 to 10,000 with a confidence		your deposition. Termeat Exposure to Tale and
	Page 259		Page 261
1	Page 259 interval of 0.9 to 2.4; and 1.8 for greater than	1	Page 261 Ovarian Cancer Risk" by Harlow, 1992. That's my
1 2		1 2	
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	interval of 0.9 to 2.4; and 1.8 for greater than 10,000 with the confidence interval of 1.0 to 3.0. And then I also yeah. So that's after 2007, the Terry and the Lou studies. Q. You're looking at Harlow 1992? A. Yes. That's the paragraph I'm looking at. Q. And Harlow 1992 found a nonstatistically significant increased risk; is that correct? A. So the confidence intervals included the null. So, yeah, it was not statistically significant. I'm not sure I don't have the numbers here, though, of how many they had dose-response data on, which would which might increase the interval. In fact, if you look at the confidence intervals, they're pretty wide, trending toward higher. Q. What are the confidence intervals you're looking at?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Ovarian Cancer Risk" by Harlow, 1992. That's my only copy. Sorry. MR. ROTMAN: Exhibit 20. A. Okay. So, I'm sorry, where are you looking? Q. Let me find it. Take your time, if you need to. I'm trying to find my copy. Okay. If you look at Table 3, "Estimated total lifetime perineal applications of talc containing powders and cases and controls." A. Okay. I see Table 3. MR. ROTMAN: Is there a question? MS. AHERN: She asked to see the study. I asked her to confirm that once they excluded cases after hysterectomy or tubal ligation, there was no exposure-response relationship. A. These look to be similar oh, I see. Okay. Total applications. Well, if you actually look at the numbers, the ones above, which are, I believe, what I quoted in my report, so under "Total applications."

	Page 262		Page 264
1	BY MS. AHERN:	1	dose-response?
2	Q. Mm-hmm.	2	A. Well, I state in my report what the
3	A. What was your question about it? I'm	3	confidence intervals are. So certainly, I'm
4	sorry.	4	showing that it did include the null hypothesis.
5	Q. There's no statistically significant	5	But I think it's still just because it's not
6	dose-response relationship with lifetime	6	statistically significant, I think it's still
7	application?	7	data, and I wouldn't completely discount it.
8	A. So the confidence intervals are	8	But it does does contain the null. The
9	somewhat similar, but are somewhat similar, it	9	numbers weren't super high, if I remember. But
10	looks like, to the top.	10	on their I'll have to find it.
11	Q. There's no statistically significant	11	On in their abstract conclusion, they
12	dose-response relationship, is there?	12	still say that "The greatest ovarian cancer risk
13	A. They all include the null. That's	13	associated with perineal talc use was observed in
14	correct. But, again, they're trending high.	14	the subgroup of women estimated to have made more
15	Q. But if they include the null, then it's	15	than 10,000 applications during years when they
16	consistent with the null hypothesis that there's	16	were ovulating and had an intact genital tract
17	no association; isn't that true?	17	with the OR of 2.8 and a statistically
18	MR. ROTMAN: Objection.	18	significant confidence interval of 1.4 to 5.4.
19	A. It's possible. The null hypothesis is	19	However, this exposure was found in only
20	included in "Possibilities."	20	14 percent of the women with ovarian cancer."
21	Q. It also basically means you can't	21	Q. Okay. But we were just asking you
22	exclude chance as a reason for the findings;	22	mentioned the study as support for a
23	correct?	23	dose-response relationship in your report?
24	A. Again, it's possible. I would say it's	24	A. As evidence of a dose a
25	trending higher, but it does include the null	25	dose-response; again, with the caveat, which is
	Page 263		Page 265
1	hypothesis.	1	here, that it includes the null hypothesis.
2	Q. Do you see on Page 25, in the first	2	Q. Okay. And what about Cramer in 1999?
3	column on the left-hand side, the first full	3	MR. ROTMAN: Objection. I don't think
4	paragraph, "In our analysis"?	4	that's a question.
5	Okay. The authors say, "In our analysis, we	5	MS. AHERN: Fair point.
6	first calculated all genital applications of talc	6	BY MS. AHERN:
7	based on frequency and years of use. As a	7	Q. In Cramer 1999, you've also cited as
8	continuous variable in a multivariate model, no	8	evidence after dose-response, correct, on Page 35
9	significant dose-response was observed between	9	of your report?
10	total genital applications of talc and ovarian	10	A. I see that. Yes. It's listed in a
	· · · · · · · · · · · · · ·	11	reference list.
11	cancer risk"; correct?		
12	A. That's what it says.	12	Q. And the authors, including Cramer,
12 13	A. That's what it says.Q. And the reason they excluded	12 13	Q. And the authors, including Cramer, basically say they "failed to demonstrate
12 13 14	A. That's what it says.Q. And the reason they excluded hysterectomy and tubal ligation is the next	12 13 14	Q. And the authors, including Cramer, basically say they "failed to demonstrate consistent dose-response relationships with
12 13 14 15	A. That's what it says. Q. And the reason they excluded hysterectomy and tubal ligation is the next sentence, "because the translocation theory	12 13 14 15	Q. And the authors, including Cramer, basically say they "failed to demonstrate consistent dose-response relationships with measures of intensity of exposure."
12 13 14 15 16	A. That's what it says. Q. And the reason they excluded hysterectomy and tubal ligation is the next sentence, "because the translocation theory assumes an open genital tract, we then excluded	12 13 14 15 16	Q. And the authors, including Cramer, basically say they "failed to demonstrate consistent dose-response relationships with measures of intensity of exposure." MR. ROTMAN: Do you have do you have
12 13 14 15 16 17	A. That's what it says. Q. And the reason they excluded hysterectomy and tubal ligation is the next sentence, "because the translocation theory assumes an open genital tract, we then excluded application after tubal ligation or hysterectomy	12 13 14 15 16 17	Q. And the authors, including Cramer, basically say they "failed to demonstrate consistent dose-response relationships with measures of intensity of exposure." MR. ROTMAN: Do you have do you have the paper?
12 13 14 15 16 17	A. That's what it says. Q. And the reason they excluded hysterectomy and tubal ligation is the next sentence, "because the translocation theory assumes an open genital tract, we then excluded application after tubal ligation or hysterectomy but observed no appreciable change in the	12 13 14 15 16 17 18	Q. And the authors, including Cramer, basically say they "failed to demonstrate consistent dose-response relationships with measures of intensity of exposure." MR. ROTMAN: Do you have do you have the paper? MS. AHERN: Do you want the paper?
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12 13 14 15 16 17 18 19 20 21	A. That's what it says. Q. And the reason they excluded hysterectomy and tubal ligation is the next sentence, "because the translocation theory assumes an open genital tract, we then excluded application after tubal ligation or hysterectomy but observed no appreciable change in the dose-response." In other words, still no significant dose-response; correct?	12 13 14 15 16 17 18 19 20 21	Q. And the authors, including Cramer, basically say they "failed to demonstrate consistent dose-response relationships with measures of intensity of exposure." MR. ROTMAN: Do you have do you have the paper? MS. AHERN: Do you want the paper? MR. TISI: Is that the one you identified before? MS. AHERN: No. This is a new one.
12 13 14 15 16 17 18 19 20 21 22	A. That's what it says. Q. And the reason they excluded hysterectomy and tubal ligation is the next sentence, "because the translocation theory assumes an open genital tract, we then excluded application after tubal ligation or hysterectomy but observed no appreciable change in the dose-response." In other words, still no significant dose-response; correct? A. That's what it says.	12 13 14 15 16 17 18 19 20 21	Q. And the authors, including Cramer, basically say they "failed to demonstrate consistent dose-response relationships with measures of intensity of exposure." MR. ROTMAN: Do you have do you have the paper? MS. AHERN: Do you want the paper? MR. TISI: Is that the one you identified before? MS. AHERN: No. This is a new one. MR. ROTMAN: She's getting the paper
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I	Page 266		Page 268
1	can find my own copy.	1	in the table. Let me see.
2	Okay. Sorry. This is the only copy I	2	Q. I think so. If you want to go to
3	have right now.	3	A. Oh.
4	THE WITNESS: Okay.	4	Q. You got it.
5	MS. AHERN: We can mark it, if you	5	A. Yes. I see it now. Sorry. It was
6	want.	6	buried in Table 3, very small print. Okay. Yes.
7	BY MS. AHERN:	7	So Table 3, years of use. Yup.
8	Q. It's a copy of the Cramer 1999	8	Q. Do you see they're not showing a
9	publication that you cited in your report in	9	statistically significant dose-response
10	support of dose-response.	10	relationship?
11	MR. TISI: Are you marking it?	11	A. So for less than 20 years, the
12	THE COURT: I can if you want me to. I	12	confidence intervals were 1.16 to 3; at 20 and 30
13	just didn't want to mark my copy.	13	and greater than 30, they did the confidence
14	MR. KLATT: I don't think I do.	14	intervals did include the null.
15	MS. AHERN: That's all right. I don't.	15	But, again, I don't know how many I can't
16	We'll mark Cramer oops, no, we won't because	16	remember. Oh, here are the cases.
17	this is the wrong study. Sorry. The old "wrong	17	Yeah. So there are 55, less than 20 cases;
18	study" trick.	18	thirty-two 20 to 30; and 59 greater than 30.
19	THE WITNESS: I can't find that	19	Q. And you see also the frequency
20	information. Oh, I've got the wrong reference.	20	analysis? It also did not find a significant
21	Sorry. All righty.	21	dose-response relationship as a statistically
22	(Article entitled "Genital Talc	22	significant dose-response relationship?
23	Exposure and Risk of Ovarian Cancer" marked	23	A. Yes. For less than 30 years, the
24	Exhibit 21.)	24	adjusted OR was 2.21 with a confidence interval
25		25	of 1.37 to 3.56.
	Page 267		Page 269
1	BY MS. AHERN:	1	The 30 to 39 was adjusted OR of 1.17 with
2	Q. Okay. So, Doctor, this is Exhibit 21,	2	confidence intervals .78 to 1.76.
3	which is "Genital Talc Exposure and Risk of	3	And the 40-plus adjusted OR was 1.57 with
4	Ovarian Cancer," Dan Cramer, 1999.	4	confidence intervals of 0.8 to 3.10.
5	A. Okay.	5	Q. So not only did the point estimate go
6	Q. This is something else.	6	down with more use, but the higher the
7	Can you find I don't have it in front of	7	concentration, there was also no statistical
8	me, so I'm going to rely on you to find the	8	significance; correct?
9	tables that show their dose-response analysis.	9	A. Yeah. I mean, the numbers so the
10	MR. ROTMAN: You made that Exhibit 21?	10	only one that doesn't include the null let me
11	MS. AHERN: Yes.	11	just double-check.
12	MR. TISI: It's 21. Yes.	11 12	Actually, there are two. So the less than
12 13	MR. TISI: It's 21. Yes. THE WITNESS: Would that be Table 2,	1	Actually, there are two. So the less than 20 years or less than 30 per month are
12	MR. TISI: It's 21. Yes. THE WITNESS: Would that be Table 2, what you're referring to (indicating)?	12 13 14	Actually, there are two. So the less than 20 years or less than 30 per month are statistically significant.
12 13 14 15	MR. TISI: It's 21. Yes. THE WITNESS: Would that be Table 2, what you're referring to (indicating)? BY MS. AHERN:	12 13 14 15	Actually, there are two. So the less than 20 years or less than 30 per month are statistically significant. Q. It's only the first dose category in
12 13 14 15 16	MR. TISI: It's 21. Yes. THE WITNESS: Would that be Table 2, what you're referring to (indicating)? BY MS. AHERN: Q. I believe the numbers were — they were	12 13 14 15 16	Actually, there are two. So the less than 20 years or less than 30 per month are statistically significant. Q. It's only the first dose category in each group
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12 13 14 15 16 17	MR. TISI: It's 21. Yes. THE WITNESS: Would that be Table 2, what you're referring to (indicating)? BY MS. AHERN: Q. I believe the numbers were they were looked at in terms of zero years' duration, less than 20, 20 to 30, and greater than 30.	12 13 14 15 16 17 18	Actually, there are two. So the less than 20 years or less than 30 per month are statistically significant. Q. It's only the first dose category in each group A. Yeah. Q shows statistical significance.
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12 13 14 15 16 17 18 19 20 21	MR. TISI: It's 21. Yes. THE WITNESS: Would that be Table 2, what you're referring to (indicating)? BY MS. AHERN: Q. I believe the numbers were — they were looked at in terms of zero years' duration, less than 20, 20 to 30, and greater than 30. Do you see that on there? A. I'm looking. This one says "less than — frequency of use." Q. There's a frequency and a duration.	12 13 14 15 16 17 18 19 20 21 22	Actually, there are two. So the less than 20 years or less than 30 per month are statistically significant. Q. It's only the first dose category in each group A. Yeah. Q shows statistical significance. And as the doses got higher, the exposure frequency got higher, the point estimates went down and statistical significance went away; correct?

	Page 270		Page 272
1	study because we don't really know what the doses	1	"application of tale."
2	are, and we don't really have granularity as far	2	"Another factor that may affect the
3	as frequency of use. Well, I have to look at	3	dose-response relationship is whether use
4	Q. These are studies that you cited in	4	occurred at a time when the female tract was
5	your report as evidence of a dose-response,	5	open. There is evidence from several studies
6	correct, the Harlow and the Cramer papers? You	6	that the talc/ovarian cancer association is
7	both cited yourself.	7	modified by closure of the female tract as a
8	Did you evaluate the internal validity of	8	result of tubal ligation or hysterectomy.
9	those studies and critically evaluate the methods	9	Q. Doctor, did they say they didn't find a
10	and study populations when you included them in	10	dose-response relationship?
11	your report?	11	A. I'm trying to find what they said other
12	A. Let me well, I said this is the	12	than that on Page 355.
13	sentence "Most have found an increased risk of	13	Yeah. They said, "Studies that have
14	ovarian cancer with increased exposure." So,	14	dose-response, including this one, have failed to
15	yet, when studies have evaluated duration of	15	demonstrate consistent dose-response
16	frequency of perineal talc use.	16	relationships."
17	So this list is the studies that evaluated	17	But it goes on to qualify with the
18	duration and frequency of perineal talc use. And	18	difficulty of measuring dose and frequency, which
19	I said, "Most have found an increased risk." So	19	is what I described earlier.
20	what I'm citing here are the studies that looked	20	Q. Mm-hmm.
21	at duration and frequency.	21	(Article entitled "Perineal Talc
22	Q. Okay. And we were referring to	22	Exposure and Epithelial Ovarian Cancer Risk
23	Cramer's 2007 publication where he himself says	23	in the Central Valley of California" marked
24	that the association has been challenged because	24	Exhibit 22.)
25	it's weak and because there's no clear increase	25	,
	- 051		
	Page 271		Page 273
1	Page 271	1	Page 273
1	in risk with duration of use.	1	BY MS. AHERN:
2	in risk with duration of use. And you didn't agree with that statement,	2	BY MS. AHERN: Q. Okay. The next one are you done,
2	in risk with duration of use. And you didn't agree with that statement, and you referred me to Harlow 1992; correct?	2 3	BY MS. AHERN: Q. Okay. The next one are you done, sorry, with that one?
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2 3 4 5	in risk with duration of use. And you didn't agree with that statement, and you referred me to Harlow 1992; correct? A. I was going to where I mentioned the dose-response studies.	2 3 4 5	BY MS. AHERN: Q. Okay. The next one are you done, sorry, with that one? A. If we're moving on, sure. Q. If you're done.
2 3 4 5 6	in risk with duration of use. And you didn't agree with that statement, and you referred me to Harlow 1992; correct? A. I was going to where I mentioned the dose-response studies. Q. Okay. Just to button up and finish up	2 3 4 5 6	BY MS. AHERN: Q. Okay. The next one are you done, sorry, with that one? A. If we're moving on, sure. Q. If you're done. The next one you mention, you cite in your
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Page 276 Page 274 1 A. I see where it says that. Q. I was trying to point you a little bit 2 Q. And if you want to look through there 2 toward this. It's Page 463. There's some 3 and convince yourself of that, go for it. I 3 discussion of it. 4 4 think the table that we're looking at is Table 2 If you look at the third paragraph down, "As 5 5 in other studies, the present study did not find on Page 460. 6 6 a clear dose-response based on duration of use or A. Yeah. The 4 to 12 years had an OR of 7 7 1.86 that was statistically significant at 1.16 cumulative use." 8 to 2.98. But the others, which were never --8 And then it says, "Limiting the analysis of 9 which, of course, is the null, 4 to 12 years, 9 dose-response to women who reported ever use of 10 10 which -- oh, the 13 to 30 was adjusted OR of talc did not affect the results, data not shown. 11 1.45, confidence interval .9 to 2.32. 11 The lack of dose-response between talc use and 12 And then the greater than 30 years was OR of 12 epithelial ovarian cancer may be explained by the 13 1.22 with confidence interval of .72 and 2.08. 13 inability to quantify the actual amount of talc 14 14 used per application and the timing of the So the 13 to 30 and the greater than 30 includes 15 application." 15 the null. 16 16 And then if we look at frequency, cumulative A. Yeah. So with that caveat. 17 17 use, frequency types duration, there was a Q. Well, the findings are what they are; statistically significant increase with second 18 18 right? 19 quartile and third quartile divisions. But then 19 The findings are no dose-response it dropped in the fourth quartile, the highest 20 20 relationship? 21 exposure. 21 A. The findings are what they are. But, 22 And, you know, again, sort of difficulty in 22 again, it's not an easy -- there's not huge 23 measuring this. But you do see an increase in 23 numbers in these cases. 24 the second and third quartile, between the second 24 And, again, you still don't know from woman 25 and third, that was statistically significant. 25 to woman what one dose is, so there's a ton of Page 275 Page 277 1 1 variability. It's not like a cigarette, where, And then --2 you know, from one cigarette to the next or, you 2 Q. But the authors themselves interpret 3 3 their data as no dose-response association; know, a drug dose is probably a more accurate 4 4 analogy, you know. correct? 5 5 A. In the abstract, that's what they Q. True. But just because it's difficult 6 state. I'm trying to figure out what their --6 to study, it doesn't mean if we could study it 7 7 what they said. They must have said a little bit better, we would get a positive result, does it? 8 8 A. I -- oh, my thing is not working. I more. 9 9 think I have to plug my thing in. Q. Doctor, you reviewed this study before; 10 10 MR. ROTMAN: Can you? right? 11 A. I did. Yes. 11 COURT REPORTER: I'd have to break to 12 12 do it. Q. Okay. 13 13 A. I'm just refreshing my memory. MR. ROTMAN: Let's go off the record. THE VIDEOGRAPHER: Off the record. 14 Q. Okay. If you look at Page 463. 14 MR. ROTMAN: Are you changing the 15 15 4:37 p.m. 16 16 (A recess was taken.) topic? 17 MS. AHERN: No. Same topic. 17 THE VIDEOGRAPHER: Back on the record, 18 MR. ROTMAN: She was looking for 18 4:44 p.m. 19 something as part of a prior answer. 19 BY MS. AHERN: 20 BY MS. AHERN: 20 Q. Okay. Doctor, you saw the Mills paper 21 Q. As part of your prior answer that there 21 in front of you? 22 was no dose-response? 22 A. Yes. 23 A. As part of the answer that they stated 23 Q. Okay. Could you look at your report on 24 that in the abstract. I was trying to find out 24 Page 21? 25 25 where they had a discussion. (Witness complies.)

	Page 278		Page 280
1	A. Okay.	1	Q. Is there a reason that that entire
2	Q. Let's see, where is my copy?	2	portion of your report is copied identically from
3	And turn to Page 3 of the Mills publication.	3	Mills except for the qualifier that the pattern
4	A. Page 3, which would be Page 460?	4	was not clear-cut for dose-response?
5	Q. That's a good question.	5	A. Well, I think it still has the same
6	Where is my Mills publication?	6	meaning.
7	MS. AHERN: Do you have it?	7	Q. Without the qualifier?
8	MR. TISI: Sure.	8	A. I think the qualifier is in the in
9	MS. AHERN: Thank you.	9	the data.
10	Oh, I know where it is.	10	Q. Okay.
11	BY MS. AHERN:	11	A. I don't think I was I wasn't trying
12	Q. I'm sorry. I thought I had the	12	to make it sound anything different than what it
13	specific passage marked. And I do, somewhere in	13	was. I think I was trying to report the data.
14	here. Okay. Sorry. It's on Page 460. I	14	Q. Okay. All right. And, Doctor, if you
15	apologize.	15	turn to Page 10 of your report, the section on
16	A. Okay.	16	inflammation.
17	Q. All right. Do you see on the Mills	17	Are you there?
18	publication on Page 460 that bottom paragraph on	18	A. Yes.
19 20	the left, "ever use of talcum powder"?	19 20	Q. You start on the second paragraph under
21	A. Yes.	21	"Inflammation" discussing oxidative stress.
22	Q. And if you read down toward the bottom	22	A. Okay.
23	part of that paragraph, on the fourth line from the bottom, the sentence starts "Duration of	1	Q. Okay. Were you aware that a significant amount of the section of your report
24	use."	23	on oxidative stress is copied verbatim? More
25	A. Okay.	25	than 60 percent of it, I think, is copied
23	A. Okay.	25	than 60 percent of it, I think, is copied
	Page 279		Page 281
1	Q. "Duration of use of talcum powder was	1	verbatim from Dr. Saed's 2018 publication?
2	associated with increased risk, although the	2	A. Again, if the language is similar, it
3	pattern was also not clear-cut in that the point	3	was not an intentional. I am citing him here, so
4	estimate peaked among those reporting 4 to 12	4	it's you know, it's clear that those are the
5	years of use and declined somewhat among those	5	references. Again, it might have been due to
6	reporting longer duration of use."	6	note-taking, but the citation is clear.
7	Do you see that statement?	7	Q. Do you ever take verbatim language out
8	A. I see that. Yup.	8	of another scientist's work and not set it off in
9	Q. And if you look at your report on	9	quotation marks in your professional work?
10	Page 21, the top paragraph, about midway, a	10	A. I think I've cited the source here.
11	little well, a third of the way down, you pick	11	It's so it's not again, it's not like I was
12	up with "Duration of use of talc was also	12	intentionally copying his words. It was, again,
13	associated with increased risk, although the risk	13	probably an editing while I was taking notes, but
14	peaked."	14	the citations are clear.
15	Do you see that statement?	15	Q. Is your is the underlying
	A 37	16	understanding that you have related to oxidative
16	A. Yes.	1	
17	Q. If you compare those statements, are	17	stress and inflammation drawn primarily from
17 18	Q. If you compare those statements, are they almost identical with the exception of the	18	Dr. Saed's work?
17 18 19	Q. If you compare those statements, are they almost identical with the exception of the statement by Mills that the pattern was not	18 19	Dr. Saed's work? A. No. I mean, oxidative stress and
17 18 19 20	Q. If you compare those statements, are they almost identical with the exception of the statement by Mills that the pattern was not clear-cut?	18 19 20	Dr. Saed's work? A. No. I mean, oxidative stress and inflammation is something that we study that
17 18 19 20 21	Q. If you compare those statements, are they almost identical with the exception of the statement by Mills that the pattern was not clear-cut? A. They are similar. This might have	18 19 20 21	Dr. Saed's work? A. No. I mean, oxidative stress and inflammation is something that we study that I've studied.
17 18 19 20 21 22	Q. If you compare those statements, are they almost identical with the exception of the statement by Mills that the pattern was not clear-cut? A. They are similar. This might have been, like I described earlier, where, if I was	18 19 20 21 22	Dr. Saed's work? A. No. I mean, oxidative stress and inflammation is something that we study that I've studied. Q. Have you ever published a study on
17 18 19 20 21 22 23	Q. If you compare those statements, are they almost identical with the exception of the statement by Mills that the pattern was not clear-cut? A. They are similar. This might have been, like I described earlier, where, if I was taking notes, some of the language might have	18 19 20 21 22 23	Dr. Saed's work? A. No. I mean, oxidative stress and inflammation is something that we study that I've studied. Q. Have you ever published a study on oxidative stress or redox biology?
17 18 19 20 21 22	Q. If you compare those statements, are they almost identical with the exception of the statement by Mills that the pattern was not clear-cut? A. They are similar. This might have been, like I described earlier, where, if I was	18 19 20 21 22	Dr. Saed's work? A. No. I mean, oxidative stress and inflammation is something that we study that I've studied. Q. Have you ever published a study on

Page 282 Page 284 1 Q. What sort of work as a pathologist have 1 A. I did attribute -- I certainly cited 2 you done that incorporates redox biology? 2 him in several places in this area. And, again, 3 A. Well, again, this is part of our 3 it was not an intentional copying. Again, it 4 medical training. Certainly in training to be a 4 might have just happened with my editing, but I 5 physician, that is something that we learn. And, 5 certainly tried to cite everything that I was 6 you know, pathologists do quite frequently come 6 looking at in the proper place. 7 across inflammatory -- inflammation literature. 7 But I do believe that it's common knowledge 8 Q. Are you -- is it your position that the 8 that chronic inflammation can cause different 9 information in your report under "Inflammation" 9 types of cancer. This is not really new data. 10 that discusses oxidative stress and redox biology 10 Q. Dr. Saed says that it's new data. 11 is common knowledge among pathologists? 11 A. In what respect, though? If we're 12 A. That oxidative stress and inflammation, 12 talking about myeloperoxidase, yes. But I'm 13 yes. I think -- yes. I think that's widely 13 talking about oxidative stress and chronic 14 accepted. 14 inflammation with known association with certain 15 Q. The specific information contained on 15 types of cancer. Pages 10 and 11 of your report that was drawn 16 16 Q. So it's your testimony that the 17 from Dr. Saed's work, is that information that is 17 verbatim text that you used in the section from 18 common knowledge? 18 Dr. Saed's 2018 paper was appropriately cited and 19 The specific enzymes that are discussed, the 19 attributed to him? 20 research on these issues, is that specific 20 MR. ROTMAN: Objection. 21 information there common knowledge? 21 A. Again, I'm not sure it's absolutely 22 A. It's common knowledge that these types 2.2 verbatim, but I certainly cited him in every 23 of cancer are associated with inflammation, and 23 place that I was referencing. 24 certainly oxidative stress is part of 24 Q. Okay. We'll just move on. 25 inflammation. 25 (Highlighted copy of Dr. Kane's Page 283 Page 285 1 Q. Was this common knowledge to you before 1 expert report marked Exhibit 23.) 2 2 you reviewed Dr. Saed's 2018 publication? BY MS. AHERN: 3 A. Yes. I was just citing his report at 3 Q. Doctor, I've marked as Exhibit 23 to 4 this point. 4 your deposition a highlighted copy of your report 5 Q. Are you aware you also cited his 5 that shows the verbatim text that has been 6 6 underlying citations in the same spots that he carried over from various publications into your 7 7 cited them? report. A. That's possible because I reviewed his 8 8 If you turn to Page 10 and 11, you'll see 9 citations as I was reading his citations. 9 that the highlighted portions are copied directly 10 10 Q. Did Dr. Saed give you permission to from Dr. Saed's work. 11 copy his -- the language from his publication? 11 MR. ROTMAN: Do you have a copy for me 12 A. I wouldn't characterize it as 12 of this exhibit? 13 "copying." I think it may be similar language, 13 MS. AHERN: Oh. I do. Sorry about 14 again, because I was writing as I was reading. 14 that. 15 But I am certainly clearly citing his work and 15 MR. ROTMAN: So we're at Page 10 and 16 the other citations. 16 119 17 Q. Do you agree that Dr. Saed's 2018 17 MS. AHERN: That's just for the Saed 18 paper is a compilation of his own synthesis and 18 publication. And there's one in there that Saed 19 review of the underlying articles that he 19 20 incorporated into his paper, and do you think 20 MR. ROTMAN: Does she have the Saed 21 it's appropriate for you to just lift the 21 publication in front of her? 22 language from his paper and the citations that he 22 MS. AHERN: I can find it for you. 23 found and synthesized and put it in your report 23 BY MS. AHERN: and not attribute it to him with quotation marks? 24 24 Q. But my point is, are you aware that 25 25 MR. ROTMAN: Objection. that -- that there's a significant portion of

	Page 286		Page 288
1	that section of your report that is just	1	biology and inflammation, are you?
2	cut-and-pasted from Dr. Saed's work?	2	A. I am not currently participating in a
3	A. I don't believe again, it's it	3	study of oxidative stress or redox biology.
4	wasn't intentional with the citations, and it	4	Q. You don't have any funding related to
5	could have happened with my note-taking or other	5	oxidative stress and inflammation, do you?
6	suggested input. But, again, I cited I	6	A. No, I do not.
7	certainly cited him in that section.	7	Q. Have you ever applied for any funding
8	Q. Okay.	8	in that area?
9	MR. TISI: Did you mark that?	9	A. No. I have not.
10	MS. AHERN: Hmm?	10	Q. Have you ever authored a systematic
11	MR. TISI: Did you mark that as an	11	review of the literature on oxidative stress and
12	exhibit?	12	inflammation?
13	MS. AHERN: Yes. I think it's 23.	13	A. Oxidative stress and inflammation, no.
14	Sorry.	14	I don't believe I have.
15	MR. TISI: That's okay.	15	Q. Have you ever authored a systematic
16	MR. ROTMAN: Do you have the Saed in	16	review of the literature on oxidative stress and
17	front of you?	17	cancer?
18	BY MS. AHERN:	18	A. No. I have not authored a systematic
19	Q. I think it's it wasn't intentional	19	review on that.
20	is your testimony, and it's probably just a	20 21	Q. Okay. Doctor, moving on to
21	result of your note-taking process; is that	1	inflammation and ovarian cancer.
22	correct?	22	Generally, on inflammation, can you cite to
23	A. Well, because I cited him specifically,	23	a published experiment that was conducted in
24	certainly it wasn't intentional to be verbatim.	25	animals in vivo that establishes a role of any particular inflammatory cell or cytokine or
25	And I'm not sure exactly the process, but	25	particular illianimatory cen or cytokine or
	Page 287		Page 289
1	and the last the state of the s		
	certainly I'm citing him several times there.	1	enzyme in tumor regenesis?
2	Q. Okay. That's fine. We'll just move	1 2	enzyme in tumor regenesis? A. Oh. Let me let me bring up my
2			
	Q. Okay. That's fine. We'll just move	2	A. Oh. Let me let me bring up my
3	Q. Okay. That's fine. We'll just move on.And, Doctor, just to be clear, I understand your testimony is that it is common knowledge to	2 3	A. Oh. Let me let me bring up my inflammation section. Sorry. I'm just refreshing myself as to what I stated in my report.
3 4	Q. Okay. That's fine. We'll just move on. And, Doctor, just to be clear, I understand your testimony is that it is common knowledge to pathologists that oxidative stress and	2 3 4	A. Oh. Let me let me bring up my inflammation section. Sorry. I'm just refreshing myself as to what I stated in my report. Oh, this is low battery again. I don't
3 4 5	Q. Okay. That's fine. We'll just move on.And, Doctor, just to be clear, I understand your testimony is that it is common knowledge to	2 3 4 5	A. Oh. Let me let me bring up my inflammation section. Sorry. I'm just refreshing myself as to what I stated in my report.
3 4 5 6	Q. Okay. That's fine. We'll just move on. And, Doctor, just to be clear, I understand your testimony is that it is common knowledge to pathologists that oxidative stress and inflammation are related; correct? A. Yes.	2 3 4 5 6 7 8	A. Oh. Let me let me bring up my inflammation section. Sorry. I'm just refreshing myself as to what I stated in my report. Oh, this is low battery again. I don't think this is plugged in. MR. ROTMAN: Can we take five minutes
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. Okay. That's fine. We'll just move on. And, Doctor, just to be clear, I understand your testimony is that it is common knowledge to pathologists that oxidative stress and inflammation are related; correct? A. Yes. Q. Okay. But you are we're talking about oxidative stress and redox biology specifically as a field of study or research. You're not an expert in that field of study or research, are you? A. I certainly have read literature in that area. Q. Does that make you an expert? A. I'm I mean, I'm familiar with	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Oh. Let me let me bring up my inflammation section. Sorry. I'm just refreshing myself as to what I stated in my report. Oh, this is low battery again. I don't think this is plugged in. MR. ROTMAN: Can we take five minutes off the record? MS. AHERN: Yes. THE VIDEOGRAPHER: Off the record, 5:02 p.m. (A recess was taken.) THE VIDEOGRAPHER: Here begins Media No. 6 in today's deposition of Sarah Kane, M.D. Back on the record, 5:28 p.m. (Article entitled "Talcum
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	Page 290		Page 292
1	to share.	1	of multiple publications.
2	It's "Talcum powder, chronic pelvic	2	A. Right.
3	inflammatory sorry, chronic pelvic	3	Q. You're saying that some of those
4	inflammation and NSAIDs in relation to risk of	4	publications shouldn't be in there because you
5	epithelial ovarian cancer."	5	added "statistically significant" as a criteria
6	And you cite Dr. Merritt's paper a couple of	6	later?
7	times in your report; is that correct?	7	A. Exactly.
8	A. I believe I cited it, yes.	8	Q. Okay. That's actually not my question
9	Q. I think you cite it as a statistically	9	about Merritt, but thank you.
10	significant positive talc study on Page 17 of	10	A. I knew that was going to come up
11	your report?	11	Q. That's okay.
12	A. Oh, let me get to that, if that's the	12	A at some point.
13	section I'm thinking of.	13	Q. While we're there, since we're sitting
14	Q. There are a couple of places?	14	here looking at this, so these are you listed
15	A. There was yes. This happened in	15	out case-control studies addressing talc, and
16	editing. I believe if this is so the sentence	16	they're supposed to be those that have
17	ended up, it originally didn't have the	17	statistically significant odds ratios; correct?
18	"statistically significant." It was just, you	18	A. That's correct. That was the
19	know, an odds ratio greater than one and listed.	19	intention.
20	And then I mistakenly didn't delete. When I	20	Q. And Gertig 2000 is there, and Houghton
21	changed it to "statistically significant," for	21	2014 are there, and they're obviously cohort
22	some reason I don't know if it happened in the	22	studies?
23	editing between additions or something somehow	23	A. So, again, I think that somehow that
24	I seem to remember deleting them. But in the	24	paragraph got all and I didn't catch it in the
25	final, they ended up all there. So that was a	25	final edits.
		-	
	Page 291		Page 293
1		1	
1 2	MR. ROTMAN: What page was this?	1 2	Page 293 Q. Okay. A. I know that that was at least a
			Q. Okay.A. I know that that was at least a
2	MR. ROTMAN: What page was this? A typographical error. It's in there twice. I noticed it after I	2	Q. Okay.
2	MR. ROTMAN: What page was this? A typographical error. It's in there twice. I noticed it after I submitted it, and it was one of those	2 3	Q. Okay.A. I know that that was at least a different paragraph at first, possibly two
2 3 4	MR. ROTMAN: What page was this? A typographical error. It's in there twice. I noticed it after I	2 3 4	 Q. Okay. A. I know that that was at least a different paragraph at first, possibly two paragraphs that got condensed. And then somehow,
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Page 294 Page 296 1 Q. And then on Page 35, Merritt is cited. endometriosis. 2 "Studies evaluating duration and frequency of 2 And do you see if you turn to -- I'm trying 3 3 to get through this quickly. You're welcome to perineal use, most have found an increased risk 4 4 of ovarian cancer with increased exposure." point out anything you want, but I kind of want 5 5 We already went through this paragraph to move us along. 6 6 A. Okay. earlier --7 7 Q. If you look at the "Discussion" A. Yeah. Yeah. 8 8 Q. -- and discussed Merritt a little bit section, I, unless I missed it, on Page 174, the 9 9 right-hand column, second full paragraph, they in that context. 10 10 note that "It has been hypothesized that talc is MR. ROTMAN: Page 30 -- the last one 11 11 linked to ovarian cancer development through was Page 35? 12 MS. AHERN: Thirty-five. Yeah. I 12 inflammation. However, evidence linking an 13 apologize. We may not have discussed Merritt. 13 inflammatory response with talc contamination of 14 14 BY MS. AHERN: the ovaries is lacking." 15 Q. But looking at Merritt now, you're 15 Do you agree or disagree with that statement 16 that evidence linking an inflammatory response 16 aware that Merritt looked specifically at 17 17 with talc contamination of the ovaries is inflammatory conditions as part of their 18 exploration of the hypothesis that chronic 18 lacking? 19 inflammation could lead to ovarian cancer; is 19 A. I don't know if I would phrase it that 20 20 that right? way. Have there been studies that have followed 21 A. Yes. There was a component from what I 21 talc from application up to the ovaries and 22 22 documenting an inflammatory response after talc? remember. 23 Q. They say in the abstract that "Chronic 23 No. There's not going to be that study. 24 inflammation has been proposed as the possible 24 That would be -- I don't think you could do 25 causal mechanism that explains the observed 25 that study today with talc being called by the Page 295 Page 297 1 1 IARC a possible carcinogen. I don't think you association between certain risk factors such as 2 2 the use of talcum powder or talc in the pelvic could design that study right now and do that in 3 region and epithelial ovarian cancer." 3 4 Do you see that? It's in the abstract, the 4 But, again, I think -- I think it's still a 5 first sentence? 5 highly compelling, plausible mechanism because we 6 A. Yeah. Okay. The first sentence. 6 know talc can cause inflammation, and 7 7 Q. Okay. They go on to say, "To address inflammation is associated with certain cancers, 8 the issue, we evaluated the potential role of 8 including certain types of ovarian cancers. 9 chronic local ovarian inflammation in the 9 So I don't know if I would state it that 10 10 development of the major subtypes of epithelial 11 ovarian cancer." 11 Q. When you say inflammation is associated 12 Do you see that? 12 with ovarian cancer, what studies are you 13 13 A. Yes. referring to? 14 Q. Okay. And just want to ask you: They 14 A. I'm referring to, for example, clear 15 cell carcinomas that have arisen from 15 conducted the study as a case-control study 16 looking at 2319 women with epithelial ovarian 16 endometriotic lesions that we've talked about 17 17 cancer: correct? 18 A. I don't remember the exact number, but 18 Q. And those cells are -- the originating 19 I will -- I will --19 cells are thought to come from the endometrium 20 20 itself, the uterus; correct? Q. I think that's -- that's okay. 21 A. I don't remember the exact number. 21 A. I don't know if we know for sure. I 22 Q. Okay. So they looked at a number of 22 mean, is it endometriosis that's in the ovary 23 factors that are theoretically associated with 23 causing chronic inflammation in the ovarian cells 24 24 that are causing the clear cell? I don't know if chronic inflammation, didn't they, including 25 25 pelvic inflammatory disease and talc use, that's been completely delineated.

Page 298 Page 300 1 Q. But there are markers that will 1 inflammatory mechanism in the development of 2 distinguish ovarian surface epithelial cells from 2 epithelial ovarian cancer. However, experimental 3 3 endometrioid cells which resemble endometrial evidence that perineal talc use elicits an 4 4 inflammatory response in the ovaries is lacking, cells; correct? 5 5 A. There are some stains that you can do. and overall, we conclude that chronic 6 6 But, again, I don't know if it's going to be -inflammation does not play a major role in 7 been completely elucidated. 7 development of ovarian cancer." 8 Q. Are you aware of recent studies that 8 Is there a reason you didn't cite the 9 9 have demonstrated that there is some abnormality Merritt study in your report specifically when 10 10 in the endometrium of women who develop discussing evidence of chronic inflammation and 11 11 endometriosis when compared to women who don't ovarian cancer, a link between those two? 12 develop endometriosis? 12 A. In the places that I -- let me just 13 13 A. I'm aware that retrograde migration of double-check. Places that I mention, was I 14 14 the endometrium is thought to -- has been not -- I wasn't talking about inflammation. Is 15 associated with endometriosis. I don't know what 15 that what you're --16 you mean by "abnormalities" of the -- you have to 16 Q. Yes. You agree you cited Merritt in 17 17 be more specific. I can't -several places in your report? 18 Q. I don't have the publication with me. 18 A. Yes. 19 19 I was just asking if you were aware of those Q. But you didn't cite anything about the 20 studies. 20 inflammation findings from Merritt. 21 A. I probably read them at some point, but 21 A. I'm not sure I can completely agree 2.2 off the top of my head, I'm not really sure 2.2 with their conclusion. It's true we don't 23 without knowing more specifically. 23 have -- like I mentioned before, we don't have a 24 Q. And would you agree that the studies, 24 study that has looked at women who use talc, 25 25 though, that show a decreased risk of ovarian follow it up, and then see chronic inflammation Page 299 Page 301 1 cancer for women who have tubal ligation are 1 in the ovary. 2 2 studies -- well, are more highly associated with But I think that's going to be -- again, we 3 3 endometrioid clear cell carcinomas than with don't know how long that chronic inflammation is 4 high-grade serous? 4 going to be there. We don't know what dose is 5 5 A. With tubal ligation, off the top of my getting into the ovary. 6 6 head, I believe that's -- that that's the case. I still think -- and, again, this is the 7 7 But with salpingectomy, which removes the plausibility part of it -- I think there's still 8 fallopian tube fimbriae, there's -- that 8 compelling evidence that talc can cause an 9 decreases the risk of serous carcinomas. 9 inflammatory response that would explain the risk 10 10 of increased risk of ovarian cancer with talcum O. To a lesser extent, then, the decrease 11 for clear cell and endometrioid, which some 11 powder products. 12 people have suggested supports the retrograde 12 So, I mean, I certainly read this. It had 13 migration of endometrial cells into the abdominal 13 some good information in it. I don't think I was 14 14 cavity? purposely trying to leave out something that had 15 A. Some people have said that that 15 evidence. This was their opinion. 16 supports the retrograde migration of the 16 And I'm -- I don't know if I would phrase it 17 17 endometrial cells. That is correct. that way, the exact words that they use. 18 Q. And I got off topic. We're looking at 18 Q. Well, if those are exactly their 19 Merritt. Page 174, if you look, let's see --19 findings here -- if you look at the top of the 20 here it is. Sorry. I apologize, on Page 175. 20 summary paragraph, "In summary, most factors that 21 21 could potentially cause ovarian inflammation such The very bottom of the summary paragraph, it 22 says, "The elevation in ovarian cancer risk 22 as pelvic inflammatory disease, HPV infection, 23 associated with use of talc in the perineal 23 and postpubertal mumps were not associated with a 24 24 significant elevation in ovarian cancer risk in region that we and others have observed has been 25 25 regarded as the main evidence supporting an our study. In addition, the expected corollary,

Page 302 Page 304 1 an inverse association with regular use of 1 Q. I'm sorry. I'm just referring 2 anti-inflammatory medications, was also not 2 generally. 3 observed -- or was not observed." 3 Do your opinions, in part, depend on the A. Yes. Yeah. Yeah. 4 4 finding of talc in ovaries? 5 Q. They looked at multiple sources or 5 A. No. Because I think, again, it's 6 multiple causes of inflammation in the pelvic 6 difficult to find talc in the ovaries. So I 7 region and did not find an association with the 7 would not expect to see -- to find, to 8 risk of ovarian cancer, and they didn't find a 8 histologically find talc in every ovary of a decreased risk in people that used 9 9 woman who has used talcum powder products. I inflammatory -- anti-inflammatory medications. 10 10 think that would be extremely difficult to do in A. I think I mentioned --11 11 every patient. 12 Q. So this is an inflammation study, isn't 12 And I know we talked about the MUC-1 theory 13 it? 13 earlier, but if that is the mechanism, that would 14 A. Yeah. I think I mentioned in -- about 14 not require talc to get to the ovary. 15 NSAIDs that I might have cited them in that 15 So, no, I don't think it's necessary to find 16 section, that the evidence was not consistent 16 talc in the ovary in every woman to come --17 with NSAIDs, if I remember correctly. 17 that's a user. 18 I definitely looked at this paper when I was 18 O. Let's talk about evidence for 19 looking at NSAID and aspirin use and certainly 19 talc-induced inflammation in the ovary. 20 inflammation as well. So... 20 For instance, you've cited the Heller study 2.1 Q. It's actually not cited anywhere with 21 from 1996 in your "Migration translocation, NSAID use or regarding inflammation at all. 22 2.2 inhalation, and lymphatic transport" section on 23 So maybe it was an earlier draft and was 23 Page 14. 24 removed at some point? 24 A. Mm-hmm. A. It's possible. 25 25 Q. Heller actually states in their study Page 303 Page 305 1 Q. And you also -- you cite -- you do cite 1 that they did not find on their H&E slides any 2 2 some of the NSAID studies and aspirin studies, response -- any expected response to talc 3 but you leave out others. You leave out Baandrup 3 particles. 4 2013, which was a negative study; Bonovas, 2005, 4 Do you remember that? 5 which was a negative study; Ni, 2012, which was a 5 A. I do remember that vaguely. Yes. 6 negative study. 6 Q. Did any of the studies that you cite in 7 When you did your review of inflammation 7 that section for the proposition that talc has including anti-inflammatory medications and the 8 8 been found in ovarian tissue, did any of those 9 risk of ovarian cancer, did you pull out more 9 find a reaction to talc in the ovaries? 10 studies in review than you actually included in 10 I don't believe the studies that have 11 your report? 11 found talc in the ovaries have all looked for 12 A. Yes. There are definitely more studies 12 chronic inflammation. Some of them, if I'm 13 13 remembering correctly, I don't know if they all than were cited in my report. 14 14 Q. Is there a reason you didn't cite the looked histologically; but the ones that did, I 15 negative studies? 15 don't believe they had mentioned finding chronic 16 A. I didn't intentionally leave out the 16 inflammation near the talc particles. 17 negative studies, but I do mention that the 17 But again, you know, depending on how long 18 evidence had been inconsistent with NSAID. 18 that inflammatory response is going to be there, 19 Q. Okay. And you mentioned the Heller 19 depending how long that particular talc particle 20 study in a couple of places. You mentioned 20 has been there, you wouldn't necessarily expect 21 several times that part of your plausibility 21 to still see it 20 years later. 22 opinions involve the fact that talc has been 22 Q. Okay. In the Heller study, they looked 23 observed in the ovaries; correct? 23 at ovarian tissue -- ovaries from one of their 24 A. Can you show me? I'm sorry. I just 24 subjects who had 1.7 or approximately 25 25 want to make sure. 1.669 million particles per gram of wet weight by

	Page 306		Page 308
1	electron microscopy and found on hematoxylin and	1	MS. AHERN: What number are we on?
2	eosin stain slides from the analyzed sections of	2	COURT REPORTER: Twenty-five.
3	the tissue that no evidence of response to talc	3	MS. AHERN: Twenty-five.
4	such as foreign body giant cell reactions or	4	MR. TISI: So 24 was
5	fibrosis in the tissue.	5	MS. AHERN: We'll wait.
6	Is that consistent with the other studies	6	(Article entitled "The
7	that have reported findings from H&E have also	7	relationship between perineal cosmetic talc
8	reported no response to talc or supposed talc	8	usage and ovarian talc particle burden"
9	they found?	9	marked Exhibit 25.)
10	What is an alternative explanation for how	10	A. I believe they went through standard
11	microscopists doing these sorts of studies might	11	electron microscopy methods, which controls for
12	find talc by TEM or SEM without any histologic	12	contamination.
13	response	13	BY MS. AHERN:
14	MR. ROTMAN: Objection.	14	Q. How?
15	Q to talc in the tissue?	15	A. I don't know if it goes through the
16	A. Well, I think I addressed that a little	16	whole but they're very careful in how they
17	earlier. Again, I don't know we don't know	17	handle tissue before they prep for electron
18	how long a chronic inflammatory response would be	18	microscopy.
19	there after a particular talc particle lands on	19	Q. Doctor, do you know where they got the
20	the ovary.	20	tissue from?
21	But the important thing would be that that	21	A. Yeah. It's listed.
22	chronic inflammation, the initial chronic	22	Q. Did they collect the tissue themselves
23	inflammation, whenever that may be, however long	23	from the patient in a particulate-free
24	it is there, causes oxidative stress that induces	24	environment and handle it with particulate-free
25	an oncogenic change in an ovarian cell or	25	gloves in containers, or did they get it from
	Page 307		Page 309
1		1	
1 2	fallopian tube cell, for that matter.	1 2	hospital paraffin-embedded tissue?
	fallopian tube cell, for that matter. So and these are very small studies that		hospital paraffin-embedded tissue? If you look on Page 1508, "Ovarian tissue in
2	fallopian tube cell, for that matter. So and these are very small studies that looked at histologic that looked	2	hospital paraffin-embedded tissue?
2	fallopian tube cell, for that matter. So and these are very small studies that	2 3	hospital paraffin-embedded tissue? If you look on Page 1508, "Ovarian tissue in blocks was reparafinized, rehydrated, blotted dry
2 3 4	fallopian tube cell, for that matter. So and these are very small studies that looked at histologic that looked histologically for talc in these ovaries.	2 3 4	hospital paraffin-embedded tissue? If you look on Page 1508, "Ovarian tissue in blocks was reparafinized, rehydrated, blotted dry and weighed, and then digested with reagents." A. So I think these women were talc users.
2 3 4 5	fallopian tube cell, for that matter. So and these are very small studies that looked at histologic that looked histologically for talc in these ovaries. So, you know, I don't necessarily think I	2 3 4 5	hospital paraffin-embedded tissue? If you look on Page 1508, "Ovarian tissue in blocks was reparafinized, rehydrated, blotted dry and weighed, and then digested with reagents."
2 3 4 5 6	fallopian tube cell, for that matter. So and these are very small studies that looked at histologic that looked histologically for talc in these ovaries. So, you know, I don't necessarily think I don't think that you would have to find chronic	2 3 4 5 6	hospital paraffin-embedded tissue? If you look on Page 1508, "Ovarian tissue in blocks was reparafinized, rehydrated, blotted dry and weighed, and then digested with reagents." A. So I think these women were talc users. Im trying to find controls that they had ovaries
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Page 310 Page 312 1 negative controls, which were fetal females that something that would happen over days. Chronic 2 would never have been exposed to talc. 2 inflammation is generally longer, but it still 3 Q. Except for after the tissues were taken 3 resolves. 4 4 from the fetuses and processed? Q. And are -- for instance, pelvic 5 A. I'm just trying to find where they --5 inflammatory disease is -- the effects of pelvic 6 what they did. 6 inflammatory disease can be seen by pathologists 7 7 for a very long time; correct? Q. What I wonder and what I don't think is 8 8 in the paper, unless you can find it, is an A. You can see fibrosis. So... 9 explanation for how the fetal ovaries were 9 Q. And one of the things that you 10 obtained and processed. 10 mentioned earlier is that talc can cause 11 Did they come from the same hospital 11 fibrosis? 12 12 A. Talc can cause fibrosis. You get -- in system --A. It would be the same. the ovary, however, you will get surface 13 13 14 14 fibrosis, generally, from the mesothelial cells Q. -- from the laboratory so that any 15 contamination that occurred to those tissues 15 in the surface. 16 But, again, you're not always going to have 16 prior to the Heller group getting them was 17 17 fibrosis with chronic inflammation, either. accounted for? 18 Or did they purchase them separately through 18 Q. If it's chronic inflammation that is 19 a company or something else that handled them 19 significant enough to lead to a transformative 20 differently from the hospital samples? 20 event, shouldn't you expect to see some evidence 21 MR. ROTMAN: Objection. 21 of that chronic inflammation? 22 A. If those were obtained differently, it 22 A. Well, we don't know how much chronic 23 should have been in the methodology. So the fact 23 inflammation is necessary to cause a carcinogenic 24 that it's not there, the next sentence after they 24 effect. 25 say, "In addition, the ovaries of two stillborn 25 Q. By analogy, wouldn't you look at Page 311 Page 313 1 fetuses were analyzed as negative controls," that 1 something like ulcerative colitis and colon 2 2 is where, if it had been a different methodology cancer since that seems to be a fairly 3 3 or different purchased ovarian cell blocks from well-established association? 4 fetuses, which I have never -- anyway, it would 4 A. Yes. And as soon as patients are 5 be -- it would be there. And it's not. diagnosed with ulcerative colitis and Crohn's 6 6 Q. Hmm. So my next question is: I had disease, they are carefully followed at the 7 7 asked you earlier if there was an alternative beginning. We don't wait 20 years to start 8 explanation for why there's no tissue response 8 following them. We know that, you know, the risk 9 seen in this study to talc particles, and you 9 is there. As soon as they're diagnosed, we know 10 said it could be because the chronic inflammation 10 there is a risk for increased cancer, so we start 11 was there and not there at the time that they 11 surveying them. 12 looked at the H&Es? 12 Q. But there's massive evidence of 13 13 inflammation -- tissue-damaging inflammation in A. Yeah. I mean, you're looking at an 14 14 ovary at a very -- at one time point. So we ulcerative colitis; correct? 15 don't know how long those talc particles were 15 A. Not always massive, but there's chronic 16 there. We don't know if -- how long -- we don't 16 inflammation. 17 know how long the chronic inflammation is there. 17 Q. Throughout the entire GI tract or 18 But the important thing is that the chronic 18 19 inflammation would cause an event to change to an 19 A. In -- it's not always the whole, but 20 oncogenic phenotype, gene type. 20 yeah, there's chronic inflammation in the 21 Q. So chronic inflammation is, by 21 22 definition, chronic; correct? Doesn't just -- it 22 Q. There's nothing in the literature that 23 doesn't just resolve in a couple of days. 23 suggests that talc causes that kind of an 24 It's ongoing; is that correct? 24 inflammatory reaction, is there? 25 25 A. It is -- acute inflammation would be A. That talc causes a chronic

79 (Pages 310 to 313)

Page 316 Page 314 1 inflammation? Q. Have you ever diagnosed a patient with 2 Q. That talc causes that sort of chronic 2 a talc-related ovarian cancer? 3 inflammatory reaction. 3 A. It's entirely possible that I have, but 4 4 I have not used polarized light microscopy on A. Well, I showed you some excerpts where 5 they mention lymphocytic and plasmacytic 5 ovarian tumors, so it's possible I have and 6 inflammation due to talc. We know that talc 6 didn't look for talc -- didn't look for talc. 7 7 MR. KLATT: Objection. Nonresponsive. causes an acute inflammation. I know we weren't 8 8 talking about acute inflammation, but we know it Q. My question was: Have you ever 9 9 diagnosed a patient with a talc-related ovarian causes acute inflammation in the -- after a 10 10 cancer, meaning you have said, "Your cancer is pleurodesis. And I'm sure you could have 11 11 related to talc use"? lymphocytes in plasma cells there too. 12 12 Again, I don't think it's the -- sure. The A. Well, first of all, I wouldn't have 13 amount and duration of chronic inflammation, I 13 said that if I'm not looking for talc. 14 14 But secondly, in our pathology reports, even mean, would that increase the risk? But even a 15 though we're thinking and looking at causation, 15 small amount of chronic inflammation for a 16 16 we're not necessarily putting in our individual relatively short period of time, I think it's 17 17 patient reports what caused their cancer. plausible. 18 18 And, again, this is all under the plausible We're certainly putting the diagnosis 19 thing that this would cause a mutagenic effect. 19 together with their medical history and their --20 Q. Can you name other chronic inflammatory 20 to kind of make all the pieces fit together, but 21 conditions that are not associated with cancer? 21 we're not necessarily in every patient putting 22 A. Chronic inflammatory conditions that 22 out a report on what causes their cancer. 23 are not associated with cancer? Well, I'm not 23 MR. KLATT: Objection. Nonresponsive. MS. AHERN: Objection. Nonresponsive. 24 sure we absolutely know every -- that a chronic 24 25 25 inflammatory condition won't cause a cancer, Q. I just want to know if you've ever Page 315 Page 317 1 but -- so I'm not really sure. I'm not really 1 actually diagnosed a patient with a talc-related 2 2 ovarian cancer. It sounds like the answer is no. sure what you're getting at. Q. Can you list five chronic inflammatory 3 3 If it is, it's okay. I need an answer. 4 conditions? 4 A. I'm trying to answer your question. 5 A. That don't cause --5 Honestly, it's entirely possible that I have. 6 Q. Just list five chronic inflammatory 6 But have I specifically put in a patient's 7 conditions. 7 report, "This ovarian cancer was caused by talc," 8 A. Well, we have rheumatoid arthritis that 8 9 increases risk of lymphomas. We have 9 Q. Thank you. That's all I was asking. 10 10 Helicobacter pylori infections that increase What about at tumor boards? Do you attend 11 gastric cancer. We have the ulcerative colitis, 11 tumor boards? 12 Crohn's disease, that increase the risk of 12 A. I do. 13 cancer. Agent exposures like asbestos that 13 Q. Have you ever suggested in a tumor 14 14 board meeting with other colleagues that a causes chronic inflammation and causes cancer. 15 HPV infection causes cancer. I mean... 15 particular patient's ovarian cancer was caused by 16 Q. Can you name one that doesn't involve a 16 talc use? 17 virus or an underlying immune dysfunction? 17 A. I've certainly discussed with 18 A. I named asbestos. 18 oncologists and radiation oncologists about my 19 O. Asbestos. 19 recent work. Again, it's been only in the last 20 And was there another? 20 year and a half that I have really done this deep 21 A. Again, I don't know if we have all the 21 dive in this literature. 22 data on potential carcinogens and whether or not 22 And I've certainly talked to radiation 23 they cause chronic inflammation for sure. I 23 oncologists, oncologists about it at tumor boards 24 think that, you know, we're still getting that 24 in a way of sort of educating them about my 25 25 findings, but we haven't discussed in the context data.

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	Page 318		Page 320
1	of a particular patient.	1	asbestos in it.
2	Q. And were these discussions with	2	Are you choosing to believe the plaintiffs'
3	radiation oncologists, were these people that	3	asbestos experts over Ms. Pier's testimony?
4	focused on if they focus on gynecologic	4	MR. TISI: Objection.
5	malignancies? Were they more pulmonary? Is	5	A. Again, I think these were pieces of
6	there a difference with radiologists in terms of	6	information for me. I wasn't relying on her
7	specialty?	7	the exhibit from her testimony for my general
8	A. There are some subspecialties. In this	8	causation. I wasn't and I didn't see
9	one, they were more general radiation	9	Dr. Longo's reports until very late in my process
10	oncologists.	10	from what I recall.
11	Q. Okay.	11	It's interesting information for me. It's
12	MS. AHERN: How much time do we have?	12	informative in that if the talcum powder products
13	THE VIDEOGRAPHER: Fifteen minutes.	13	cause [sic] asbestos, that certainly lends
14	MS. AHERN: I'm going to turn it over	14	significance to plausibility. But I'm
15	to my colleagues so they have an opportunity to	15	MR. ROTMAN: Do you want to reread your
16	ask questions. Thank you very much. I	16	answer there? I think you misspoke.
17	appreciate it.	17	THE WITNESS: Okay. Sorry.
18	THE WITNESS: Thank you.	18	A. Yes. I did. If the talcum powder
19	MR. KLATT: How much time do we have?	19	contains asbestos, that certainly adds to the
20	We're at 6:37 right now.	20	plausibility. But I'm not opining on whether or
21	Are you ready for me to continue?	21	not talcum powder products contain asbestos.
22	CROSS-EXAMINATION	22	Q. And you wouldn't have the expertise to
23	BY MR. KLATT:	23	decide that Dr. Longo's testimony about asbestos
24	Q. Dr. Kane, are you ready to continue?	24	in talc is more credible than Ms. Pier's
25	A. Yes.	25	testimony about asbestos in talc, do you?
	Page 319		Page 321
1	Page 319		Page 321
1	Q. Can you hear me okay?	1	A. I have a, I would say, cursory
2	Q. Can you hear me okay?A. Yes.	2	A. I have a, I would say, cursory knowledge of how they would test for asbestos. I
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2 3 4	Q. Can you hear me okay?A. Yes.Q. Yes. Dr. Kane, my name is Mike Klatt,and I represent a company called Imerys Talc	2 3 4	A. I have a, I would say, cursory knowledge of how they would test for asbestos. I couldn't say that I am an expert in the methods that they use to detect asbestos.
2 3 4 5	Q. Can you hear me okay?A. Yes.Q. Yes. Dr. Kane, my name is Mike Klatt, and I represent a company called Imerys Talc America in this case.	2 3 4 5	A. I have a, I would say, cursory knowledge of how they would test for asbestos. I couldn't say that I am an expert in the methods that they use to detect asbestos. Q. But my specific question is: You don't
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Page 322 Page 324 1 correct? at the end of the answer before you started your 2 A. It -- I wouldn't say I'm an expert in 2 next question. 3 3 A. So I'm aware that they're in these 4 Q. You mentioned earlier in response to 4 things. What I'm looking at is a product that's 5 Ms. Ahern's questions, you talked about heavy 5 used frequently and for -- in a lot of women for 6 6 a long duration of time. So their exposure -- if 7 Are you aware that IARC has not singled out 7 they are in the talcum powder, their exposure to 8 a single heavy metal as a cause of ovarian 8 those heavy metals would be greater than the 9 9 exposure they're getting in the environment. cancer? 10 10 Q. Those same, exact heavy metals are in A. Yes. I have seen that. I have reviewed the IARC monograph on heavy metals, and 11 drinking water, bottled water, food, and 11 12 12 multivitamins that people take every single day, 13 But, again, it's another sort of piece of 13 and there's no evidence that they cause ovarian the plausibility puzzle. If we -- we know that 14 14 cancer; correct? 15 some of them are either listed as carcinogens or 15 A. There has not been a link with heavy probable carcinogens. If they're in the talcum 16 16 metals to ovarian cancer specifically as of yet. powder product, that's just another piece of the 17 Q. And there's no evidence you're aware of 17 18 biological plausibility puzzle. And I --18 that the tissue levels of any heavy metals are Q. Well, is it your -- I'm sorry. I 19 19 higher in talc users than in women who never used 20 didn't mean to cut you off. 20 talc; correct? 21 A. No. Sorry. 21 A. I don't -- I'm not aware of that study 22 Q. Is it your testimony that if something 22 being done. 23 is considered a carcinogen for one organ system 23 Are you talking tissue levels? 24 by IARC, that it's capable of causing cancer in 24 Q. Blood levels --25 25 all organ systems? A. Blood levels. Page 323 Page 325 1 A. As I've testified several times here 1 Q. - tissue levels. Anything you want. today, I think different tissues respond in 2 You're -- there's no medical or scientific 2 3 3 different ways to different carcinogens. So I evidence that you would tell this court that the 4 4 would not make a blanket statement that a levels of heavy metals in women who use talcum 5 5 carcinogen in one site will definitely cause powder in the genital area are higher than women 6 6 cancer in another site. who have never used talcum powder? 7 7 However, having carcinogens, known A. I'm not aware of studies that have been 8 8 carcinogens in a product, it can add to the done that have looked at the levels of those 9 9 biological plausibility. And we're not talking heavy metals in ovarian tissue or blood levels. 10 about these heavy metals sort of in the 10 Q. Earlier you mentioned there was a study 11 environment. I mean, these are -- there's 11 about changing gene expression in the presence of 12 evidence that they are in a product that's used 12 talc in mesothelial cells? 13 regularly and frequently. 13 A. Yes. 14 Q. The mere fact that you have changing 14 Q. Are you -- are you aware that the same, 15 exact heavy metals are in bottled drinking water? 15 gene expression in no way implies something is 16 A. So, again, I don't know what the levels 16 carcinogenic; correct? 17 of these heavy metals are in drinking water. I 17 A. It -- it's evidence that it's changing 18 know that they are found in the environment 18 gene expression within those cells, and --19 commonly. 19 Q. If -- I'm sorry. Go ahead. 20 Q. Are you aware they're in foods? 20 A. And the genes in that study that had 21 A. I'm aware that they are in the 21 increased expression are involved in the 22 environment and foods regularly. Yes. But --22 inflammatory -- are pieces in the inflammatory 23 Q. Are you aware they're in multivitamins? 23 response. 24 MR. ROTMAN: Wait. Wait. 24 Q. You're aware that many of those genes 25 I was hearing a "but" and not a period 25 in that study were antioxidant genes and

	Page 326		Page 328
1	anti-inflammatory genes that were elevated;	1	MR. KLATT: Can we mark that?
2	correct?	2	MR. ROTMAN: Can we get a time check?
3	A. They can regulate or deregulate, and I	3	THE VIDEOGRAPHER: 6:30.
4	think it's interesting let's say that they	4	MR. ROTMAN: Thank you.
5	were antioxidant they were producing	5	(Article entitled "Pycnogenol
6	antioxidant enzymes. I think that is evidence	6	reduces Talc-induced Neoplastic
7	that it's trying that the cell is trying to	7	Transformation in Human Ovarian Cell
8	respond and is trying to prepare itself for an	8	Cultures" marked Exhibit 26.)
9	insult, an inflammatory insult. Otherwise, why	9	MS. AHERN: That's 26.
10	would that gene be expressed?	10	Q. Referring to Exhibit 26, Dr. Kane, is
11	So, I mean, there's increased and decreased	11	this the Buz'Zard study you were mentioning
12	regulation.	12	earlier?
13	Q. But, Dr. Kane, you're aware that	13	A. Yes, this is it.
14	strenuous exercise can increase gene expression	14	Q. And if you'll flip over to Page 3
15	of prooxidants, antioxidants, proinflammatory,	15	excuse me, 582, Figure 3, do you see Figure 3
16	anti-inflammatory proteins; correct?	16	is
17	A. Strenuous exercise can increase	17	MR. ROTMAN: Can I have a copy of that,
18	antioxidants in proinflammatory,	18	please?
19	anti-inflammatory proteins.	19	MR. KLATT: I'm sorry?
20	But, again, I'm opining about a product that	20	MR. ROTMAN: I'm waiting for a copy of
21	someone is going to be using regularly with	21 22	that.
22	frequency over a long period of time.	23	MR. KLATT: Oh. Yes. We do provide
23	Q. You're aware that	24	copies.
24 25	A. It just adds to the I'm not you know, I don't have an opinion about whether or	25	MR. ROTMAN: This is Exhibit No. 1? THE WITNESS: I'm sorry. Which table?
25	know, I don't have an opinion about whether of	25	THE WITNESS. Thi sorry. Which table:
	Page 327		Page 329
1		1	
1 2	not those heavy metals are in talc. I've looked	1 2	Page 329 MS. AHERN: Twenty-six. BY MR. KLATT:
	not those heavy metals are in talc. I've looked at some evidence that they are there, but I don't	1	MS. AHERN: Twenty-six. BY MR. KLATT:
2	not those heavy metals are in talc. I've looked	2	MS. AHERN: Twenty-six.
2	not those heavy metals are in talc. I've looked at some evidence that they are there, but I don't have an opinion that they're actually in talc.	2 3	MS. AHERN: Twenty-six. BY MR. KLATT: Q. Figure 3. Page 582.
2 3 4	not those heavy metals are in talc. I've looked at some evidence that they are there, but I don't have an opinion that they're actually in talc. It's just another piece of evidence, again, for	2 3 4	MS. AHERN: Twenty-six. BY MR. KLATT: Q. Figure 3. Page 582. MR. ROTMAN: What exhibit are we on?
2 3 4 5	not those heavy metals are in talc. I've looked at some evidence that they are there, but I don't have an opinion that they're actually in talc. It's just another piece of evidence, again, for the biological plausibility.	2 3 4 5	MS. AHERN: Twenty-six. BY MR. KLATT: Q. Figure 3. Page 582. MR. ROTMAN: What exhibit are we on? COURT REPORTER: Twenty-six.
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	Page 330		Page 332
1	mutagenesis.	1	generation for each talc microgram.
2	Q. Well, let's look at what Buz'Zard found	2	Q. Do you see in the far right column,
3	when talc was applied to surface ovarian cells.	3	they applied 200 micrograms of hydrogen peroxide?
4	Do you see that? That's Figure 3A up at the	4	A. Yes.
5	top?	5	Q. And that resulted in a 200 percent
6	A. A, up at the top. Yes.	6	increase in reactive oxygen species during those
7	Q. And you'll agree with me, you see on	7	time periods; correct?
8	the Y axis it says "Percentage of reactive oxygen	8	A. That is what it says. Yes.
9	species generation in OSE2a cells"; correct?	9	Q. And that's their positive control;
10	A. Yes.	10	correct?
11	Q. That's ovarian surface epithelial	11	A. Let me just double-check.
12	cells; correct?	12	If I'm remembering the study correctly, yes,
13	A. Yes.	13	you are you are right.
14	Q. And you'll see at the zero talc level	14	Q. People gargle with hydrogen peroxide;
15	on the X axis	15	correct?
16	A. Mm-hmm.	16	A. They shouldn't.
17	Q that had 100 percent talc excuse	17	Q. Well, you know, it's allowed on the
18	me a 100 percent reactive oxygen species	18	bottle.
19	generation at all three time periods; correct?	19	You know that; correct?
20	A. That is correct. And	20	A. If you're telling me they gargle with
21	Q. And when talc was applied?	21	it, that's fine.
22	MR. ROTMAN: Wait. Wait.	22	Q. Well, they put it on cuts; right?
23	Did you finish your answer?	23	A. They shouldn't put it on cuts. It's
24	A. Well, we were just talking about how	24	actually
25	cells can have innate ROS generation.	25	Q. It's sold for that, isn't it?
	Page 331		Page 333
1	Q. And this graph shows that as you	1	A. I think most MDs would tell you that
2	applied increasing doses of talc, the level of	2	it's probably better not to use hydrogen peroxide
3			
	generation of reactive oxygen species in the	3	on open cuts because it can cause a pretty severe
4	generation of reactive oxygen species in the ovarian cells went down.	3 4	on open cuts because it can cause a pretty severe reaction.
4 5			· · · · · · · · · · · · · · · · · · ·
	ovarian cells went down. It didn't go up; correct?	4	reaction. Q. You're aware that it's sold over the
5	ovarian cells went down.	4 5	reaction.
5 6	ovarian cells went down. It didn't go up; correct? A. Well, it goes up at what's the 50	4 5 6	reaction. Q. You're aware that it's sold over the counter in stores every day for as an antiseptic? A. Talcum powder is sold for everyday use
5 6 7	ovarian cells went down. It didn't go up; correct? A. Well, it goes up at what's the 50 the 50 micrograms per milliliter. It goes up at	4 5 6 7	reaction. Q. You're aware that it's sold over the counter in stores every day for as an antiseptic?
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	Page 334		Page 336
1	increased. And I don't know my caveat is I	1	A. I have to look at the studies. There
2	don't know where the threshold would be where the	2	might be one where it wasn't statistically
3	ROS would stop being generated.	3	significant, but I think the majority of the ones
4	Q. Is aspirin approved by any	4	that looked at aspirin use showed a decreased
5	pharmaceutical company or recommended by any	5	risk of ovarian cancer.
6	medical organization for prevention of ovarian	6	Q. Are you are you a member of the
7	cancer?	7	International Society of Gynecologic
8	A. That is not on the label description.	8	Pathologists?
9	Q. If aspirin prevented ovarian cancer,	9	A. I don't think I'm a member currently.
10	don't you think it would be marketed for that	10	No.
11	purpose?	11	Q. Have you ever been?
12	MR. TISI: Objection.	12	A. I believe so.
13	MR. ROTMAN: Objection.	13	Q. It's not on your CV.
14	A. I'm sure it may be after years of FDA	14	A. Okay. I'm not currently. I know that.
15	red tape and approval, but the literature	15	Q. Are you a member of the American
16	again, I've said the literature is not as beefy	16	Society of Clinical Pathology?
17	as the epi data when we're looking at aspirin and	17	A. I actually am.
18	NSAIDs.	18	Q. It's not on your CV.
19	NSAID, in particular, is not as consistent.	19	A. Okay. That should be updated, then.
20	The aspirin data does appear to be consistent in	20	Q. Have you ever been a member of any
21	lowering the risk, but there are not a lot of	21	working group or organization on the
22	studies looking at this yet.	22	classification of female reproductive organ
23	Again, though, just a piece of the puzzle	23	tumors?
24	for a biologic plausibility.	24	A. No. I can't no.
25	Q. Well, certainly, we're not at the point	25	Q. You mentioned the Surgeon General's
	Page 335		Page 337
1	for aspirin and ovarian cancer that we are, for	1	report in 1964. You're aware that when that came
2	example, with aspirin in terms of cardiovascular	2	out about smoking, there were numerous studies in
3	risk; correct?	3	the literature at that point in time showing that
4	A. I would agree with that sentiment.	4	the chemicals in cigarette smoke actually damaged
5	Q. And doctors and medical organizations	5	DNA and resulted in cancer; it wasn't based just
6	have recommended aspirin for reduction of	6	on epidemiology?
7	cardiovascular risk; correct?	7	A. I think epidemiology my point was
8	A. That's correct. Although the dosage	8	that the epidemiology was the sort of first
9	has as of late, they're kind of parsing out	9	there were pathologists that had noticed on
10	the they're reevaluating what dosages, but	10	autopsies in patients that smoked it was
11	you're correct.	11	actually pathologists and a surgeon in the early
12	Q. And you can't cite a single medical	12	years that had noticed some changes, some
13	organization that at this point in time says the	13	squamous metaplastic changes.
14	evidence that aspirin reduces ovarian cancer is	14	But it was really the epi data that sort of
15	sufficient that women should take it on a regular	15	drove the research on smoking and tobacco
16	basis to reduce ovarian cancer; correct?	16	initially. But, again, there were some studies
17	A. Well, I think I've said there aren't	17	that had shown some pathologic changes in
18	that many studies yet. It's only that I'm	18	smokers. That's true.
19	aware of, there are only a handful. They've been	19	Q. You're aware that the cohort studies,
20	consistent with aspirin. Not so much with NSAID.	20	the hospital-based case-control studies, and the
21	That's, I think, as far as the evidence takes us	21	population-based case-control studies all
22	as this point.	22	uniformly showed that smoking increased the risk
23	Q. There's actually studies showing that	23	of lung cancer; correct?
24	chronic aspirin ingestion doesn't decrease	24	A. That's correct.
25	ovarian cancer risk; correct?	25	Q. And that's not true for talc and
		1	

	Page 338		Page 340
1	ovarian cancer; correct?	1	that one statement.
2	A. Well, I have some issues with the	2	Go ahead.
3	cohort studies.	3	MR. ROTMAN: If you want to do that,
4	Q. I know that.	4	that's fine.
5	But my statement is true; correct?	5	BY MR. KLATT:
6	A. But I think it's relevant because the	6	Q. That draft Health Canada issued a
7	cohort studies, I don't believe, followed	7	draft assessment that's undergoing a 60-day
8	patients for a long enough time.	8	public comment period; correct?
9	The Nurses' Health Study only asked about	9	A. That's true.
10	talcum powder use once in 1982, so there's	10	Q. And then they have up to two years to
11	certainly room for misclassifications of users as	11	decide whether to take any action or no action at
12	never users.	12	all; correct?
13	And some of some of again, there's	13	A. Well, there's two pieces of that. From
14	smaller numbers because it's a it's a cohort	14	my understanding is that they've already done the
15	study.	15	scientific. They've already done the literature
16	Q. You're aware that the National Cancer	16	review. They've already done their Bradford Hill
17	Institute doesn't agree with you on that, aren't	17	analysis, and they've come to the conclusion that
18	you?	18	they've come to.
19	A. I have seen the NCI website. I	19	And then there's the public commentary. And
20	certainly considered what they say about it. I	20	then there's the regulatory aspect of it.
21	don't know if they have done the same type of	21	Now, I am I would not claim to be an
22	analysis as I've done. I don't believe it's on	22	expert in regulatory. I know we have regulatory
23	their website what methodology they used and what	23	experts that are coming on. But in from my
24	literature they reviewed.	24	understanding, the regulatory aspect is different
25	So I'm aware of what they've stated. But,	25	than the scientific aspect.
	Page 339		Page 341
1		1	Page 341 MR. ROTMAN: Mike, you're done? I just
1 2	you know, I've still done this extensive review that I'm not sure they did to come to my	1 2	
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86 (Pages 338 to 341)

	Page 342		Page 344
1	A. Yes.	1	just strike that.
2	Q. She did not show you those studies, did	2	You were asked questions about surgical
3	she?	3	gloves and surgical-grade talc on surgical
4	A. I don't believe I saw them.	4	gloves.
5	Q. Are you able to agree with her	5	A. Yes.
6	characterization that these were negative studies	6	Q. Do you recall that?
7	without having without looking at them?	7	A. Yes.
8	A. I should have asked for them and had	8	Q. And I think you were asked if you were
9	them in front of me while asking questions.	9	aware of any studies linking the use of talcum
10	Q. Now, you were asked questions	10	powder on surgical gloves with the occurrence of
11	A. I mean answering questions.	11	ovarian cancer.
12	Q throughout the day about	12	Do you recall that?
13	inflammation as a biologically plausible	13	A. Yes.
14	mechanism for explaining talc causing ovarian		
15	cancer in light of the epi study findings.	14	Q. Is there a difference, a notable
16	A. Yes.	15	difference, between talcum powder on surgical
17	Q. You were also asked questions about	16	gloves and the talcum powder products in perineal
18	cigarette smoking at various times throughout the	17	use that, regardless of the constituent of the
19	day?	18	powder, that you would want to point out?
20	A. Yes.	19	MR. KLATT: Objection. Form.
21		20	MS. AHERN: Same.
	Q. Does cigarette smoking have an	21	A. So a patient's exposure to surgical
22	inflammatory effect?	22	gloves are going to be infrequent and not of long
23	A. Yes.	23	duration. It's not the same type of exposure as
24	Q. What is the	24	regular and frequent application of perineal
0.5			regular and frequent appreciation of permean
25	A. It does cause chronic inflammation.	25	talcum powder that we're seeing in the epi data.
25	A. It does cause chronic inflammation. Page 343		
25	Page 343	25	talcum powder that we're seeing in the epi data. Page 345
	Page 343 Q. You were also asked questions about	25	talcum powder that we're seeing in the epi data. Page 345 MR. ROTMAN: No further questions.
1	Page 343 Q. You were also asked questions about heavy metals being present in food and water and	25 1 2	talcum powder that we're seeing in the epi data. Page 345 MR. ROTMAN: No further questions. It's 6:
1 2	Q. You were also asked questions about heavy metals being present in food and water and vitamins; correct?	25 1 2 3	talcum powder that we're seeing in the epi data. Page 345 MR. ROTMAN: No further questions. It's 6: (Discussion off the record.)
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	Page 346		Page 348
1	the as the number of applications goes from	1	A. Yes.
2	less than 1,000 to greater than 10,000?	2	Q. And this is this is in the
3	A. The adjusted ORs go from the null,	3	"Discussion" section of the paper; is that right?
4	1.0 at none, 1.4 at less than 1,000, to 1.7 at	4	A. Yes.
5	greater than 10,000.	5	Q. And do you see in the paragraph that
6	Q. And so what, just looking at the	6	I'm pointing to that begins with "Our study"?
7	adjusted odds ratio, what	7	A. Yes.
8	A. It's an increase with increased	8	Q. Could you read into the record and
9	Q what is your takeaway?	9	comment on the last sentence in that paragraph.
10	A. So it does show an increased odds ratio	10	A. "Daily versus less-than-daily talc use
11	with increased applications.	11	and talc use for more than ten years versus less
12	The confidence intervals do include the	12	than ten years were associated with greater risk
13	null, but they're the higher end, it's higher	13	for ovarian cancer."
14	confidence interval at the upper end.	14	Q. And can you comment on that?
15	And it's not very far from the null on the	15	A. So that does show a trend for a
16	lower end.	16	dose-response.
17	And it, in fact, includes it's 1.0 at	17	MR. ROTMAN: Okay. So I have 6:48.
18	greater than 10,000.	18	You've got eight minutes.
19	Q. And so for the 1,000 to 10,000	19	RECROSS-EXAMINATION
20	applications, the lower bound of the confidence	20	BY MR. KLATT:
21	interval is .9?	21	Q. That Harlow study you were just looking
22	A. Correct.	22	at
23	Q. And how close is that to being a	23	A. Yeah.
24	statistically significant finding?	24	Q is that the 1992 Harlow study?
25	A. Very close.	25	A. It's the 1992 from Exhibit 20.
	Page 347		Page 349
1		1	
1 2	Q. And can you also take a look at the	1 2	Q. And can you look on the last page of
2	Q. And can you also take a look at the discussion on that page in the left-hand column	2	Q. And can you look on the last page of this study, the page where the article ends and
	Q. And can you also take a look at the		Q. And can you look on the last page of this study, the page where the article ends and the reference begins.
2 3	Q. And can you also take a look at the discussion on that page in the left-hand column in the paragraph that begins with "We also examined"?	2 3 4	Q. And can you look on the last page of this study, the page where the article ends and the reference begins. Did Harlow find the strength of association
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2 3 4 5 6	Q. And can you also take a look at the discussion on that page in the left-hand column in the paragraph that begins with "We also examined"? A. Okay. Q. Is there a discussion in that paragraph concerning the author's discussion of	2 3 4 5 6	Q. And can you look on the last page of this study, the page where the article ends and the reference begins. Did Harlow find the strength of association between genital use of talc and ovarian cancer was strong or weak? A. So they use they say, "Because the
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Page 350 Page 352 statement that I asked you to read says in full, 1 1 element of recall bias in case-control studies, 2 "Because the overall association between genital 2 but the authors are aware. Many of them talk 3 3 use of talc and ovarian cancer remains weak, it about that and discuss why they feel recall bias 4 is unlikely that this exposure disease pathway is 4 wasn't an explanation. 5 the principal one involved in ovarian cancer 5 And, again, we're talking about multiple 6 etiology"? 6 studies over numerous populations over different 7 Is that what Harlow said? 7 periods of time, most of them well before the 8 A. That's what it states. But, again, 8 general public knew about an association between 9 that is 1992. This is the very beginning of the 9 talcum powder and ovarian cancer. epi data looking at this exposure and ovarian 10 10 And even further, the fact that there's a 11 cancer. 11 strong association in the literature with serous 12 MR. KLATT: Object and move to strike 12 invasive cancer would argue against a recall bias everything after "That's what it says." 13 13 because the lay public is not knowledgeable about 14 Q. And, by the way, the odds ratio that 14 the histologic subtypes of epithelial ovarian Harlow found overall was 1.5. 15 15 carcinoma. And that's even a little higher than the 16 16 Q. Let me ask you this, Dr. Kane: We 17 odds ratios the more recent meta-analyses have 17 lawyers, before we have to go to trial, like to 18 shown; correct? 18 know if the prospective jurors have already made 19 A. So --19 up their mind about the case. 20 Q. So they're even weaker than Harlow. 20 Do you know if in any of these case-control 2.1 A. I'm sure some epidemiologists might 21 studies where the women who had ovarian cancer, take -- I'm not -- but, again, I've seen, even 22 22 were they asked before they entered the study, with 1.3 and 1.4, epidemiologists refer to that 23 23 "Do you have a preconceived notion about what 24 as "moderate." 24 caused your ovarian cancer?" 25 So I don't know if it's semantics, but it's 25 A. I'm not aware of a case-control design Page 351 Page 353 1 1.3. It's a 30 percent increased risk. In this 1 that would ask that question because even asking 2 that question would potentially add an element of 2 case, 1.5, a 50 percent increase in risk. And in 3 a rare disease like ovarian cancer, that's 3 recall bias --4 significant. Q. But if a woman already --5 Q. And Harlow calls a 1.5 odds ratio weak; 5 MR. TISI: She wasn't finished. 6 6 Q. Were you finished? correct? 7 7 A. That's what he says in this 1992 paper. A. I was going to say in a lot of these Q. And you'd agree with me the more recent 8 8 studies, they also asked about smoking history 9 meta-analyses of talc and ovarian cancer have a 9 and other potential lifestyle issues in addition 10 10 to talcum powder use that would -- and yet, those lower odds ratio than 1.5? 11 A. They seem to be between 1.3 and 1.4. 11 types of questions didn't show an elevated risk 12 but the important thing to me is the consistency. 12 like talcum powder products. 13 Q. And you're aware that epidemiologists 13 Q. Well, wouldn't you want to know --14 14 say with case-control studies that odds ratios in before you interviewed the women who have ovarian 15 the range of 1.0 to 1.5 are well within the range 15 cancer, wouldn't you want to know if they have a 16 that can be explained by bias and confounding? 16 preconceived notion about what caused their 17 MR. ROTMAN: Objection. 17 ovarian cancer so if you didn't exclude them from 18 A. I think all of the studies were 18 the study, at least you could take that 19 aware -- all of the authors were aware of 19 preconceived bias into account when you did the 20 20 statistics? potential recall bias and confounding and sought 21 21 A. I would think if you're designing a to control as much as possible those factors in 22 their control studies. Most of them, I feel, 22 case-control study and trying to avoid recall 23 were relatively well-designed to assess for and 23 bias, there are better ways to do that because 24 adjust for multiple confounding factors. 24 just by asking, "Do you have a preconceived 25 25 notion about it?", you're introducing potential And as far as recall bias, there's an

	Page 354		Page 356
1	bias because they might think, Oh, maybe there is	1	Yes. It involves an inflammatory state.
2	an association. And you're adding bias,	2	MR. KLATT: Thank you, Doctor.
3	potentially, that way.	3	MR. TISI: Just one question.
4	Q. You mentioned cigarette smoking just a	4	(Discussion off the record.)
5	minute ago in response to Mr. Rotman's questions.	5	MR. ROTMAN: We're done.
6	And you said cigarette smoking involves a	6	MR. TISI: Thank you.
7	chronic inflammatory condition in the body;	7	THE VIDEOGRAPHER: Here ends today's
8	correct?	8	deposition. Off the record, 6:58 p.m.
9	A. There is an inflammatory response in	9	(Deposition concluded at 6:58 p.m.)
10	the body.	10	
11	Q. But cigarette smoking has not been	11	
12	shown to increase the risk of the two most common	12	
13	forms of ovarian cancer, which is serous invasive	13	
14	and endometrioid invasive; correct?	14	
15	A. So, again, different tissues will	15	
16	respond to different agents in different ways.	16	
17	Mucinous carcinoma has been associated in some	17	
18	studies with smoking, so there is evidence that	18	
19	epithelial ovarian cancer can be caused by	19	
20	smoking.	20	
21	MR. KLATT: Object. Nonresponsive.	21	
22	Q. The two most common forms of invasive	22	
23	ovarian cancer serous, which is the most	23	
24	common, and endometrioid, which is the second	24	
25	most common have not been shown to be elevated	25	
1	Page 355 as a result of smoking; correct?	1	Page 357
2	A. The data has not shown an association		ERRATA
3	between those two types with smoking.	2	PAGE LINE CHANGE
4	Q. Even though smoking involves a chronic	3 4	PAGE LINE CHANGE
5 6	inflammatory state; correct?	5	REASON:
7	A. But, again	6	READON.
8	Q. That is did you hear my question? Even though smoking involves a chronic	7	REASON:
9	inflammatory state; correct?	8	
10	A. We're talking about different types of	9	REASON:
11	exposures.	10	
12	Q. Does smoking	11	REASON:
13	A. Different agent	12	
14	MR. ROTMAN: One second, Mike.	13	REASON:
15	Do you want an answer to the question?	14	
16	Because you're cutting	15	REASON:
	BY MR. KLATT:	16	
17		17	REASON:
17 18	Q. My question is: Does smoking	18	
	Q. My question is: Does smoking involve	1	DEAGON
18		19	REASON:
18 19	involve	19 20	
18 19 20	involve MR. ROTMAN: Wait. Wait, Mike. Let	19 20 21	REASON:
18 19 20 21	involve MR. ROTMAN: Wait. Wait, Mike. Let her answer the question, and then you're done	19 20 21 22	REASON:
18 19 20 21 22	involve MR. ROTMAN: Wait. Wait, Mike. Let her answer the question, and then you're done because we're over.	19 20 21 22 23	REASON:
18 19 20 21 22 23	involve MR. ROTMAN: Wait. Wait, Mike. Let her answer the question, and then you're done because we're over. Do you know what the question was?	19 20 21 22	REASON:

90 (Pages 354 to 357)

	Page 358	
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1 2	ACKNOWLEDGMENT OF DEPONENT	
3	I,, do hereby certify that I have read the	
	foregoing pages, and that the same	
4	is a correct transcription of the answers given by me to the questions therein	
5	propounded, except for the corrections or changes in form or substance, if any,	
6 7	noted in the attached Errata Sheet.	
8	SARAH E. KANE, M.D. DATE	
9 10		
11		
12		
13		
14	Subscribed and sworn	
15	to before me this	
	day of, 20	
16	My commission expires:	
17	iviy continussion expires	
18	N. D.I.	
19	Notary Public	
20		
21		
22 23		
24		
25		
	Page 359	
	5	
1	CERTIFICATE	
1 2		
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91 (Pages 358 to 359)